



powering **marine** safety

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# DIESEL ENGINE TYPE DV48ME

RESERVEDELSKATALOG  
SPARE PARTS LIST  
ERSATZTEILLISTE

### **Anvisning for Reservedelsbestillinger**

Ved bestillinger af reservedele bedes opgivet Side og Pos. Nr., reservedelens nummer og betegnelse samt det ønskede antal og endvidere motorens type og serie nummer, som er angivet på motorens typeskilt.

Eksempel på reservedelsbestilling:

Side 7, Pos. 33, Nr. 000E6414 stempelpind, 3 stk. for motor type DV48 Nr. 300162

### **Instruction for Spare-parts orders**

In orders for spare-parts please indicate the Page and Pos. No., spare-parts number and designation as well as the desired quantity, and besides the type of engine and its serial number as indicated on the type-plate of the engine.

For instance as follows:

Page 7, Pos. 33, Part No. 000E6414 gudgeon pin, 3 pcs. for engine type DV48 No. 300162

### **Anweisung für Ersatzteilbestellungen**

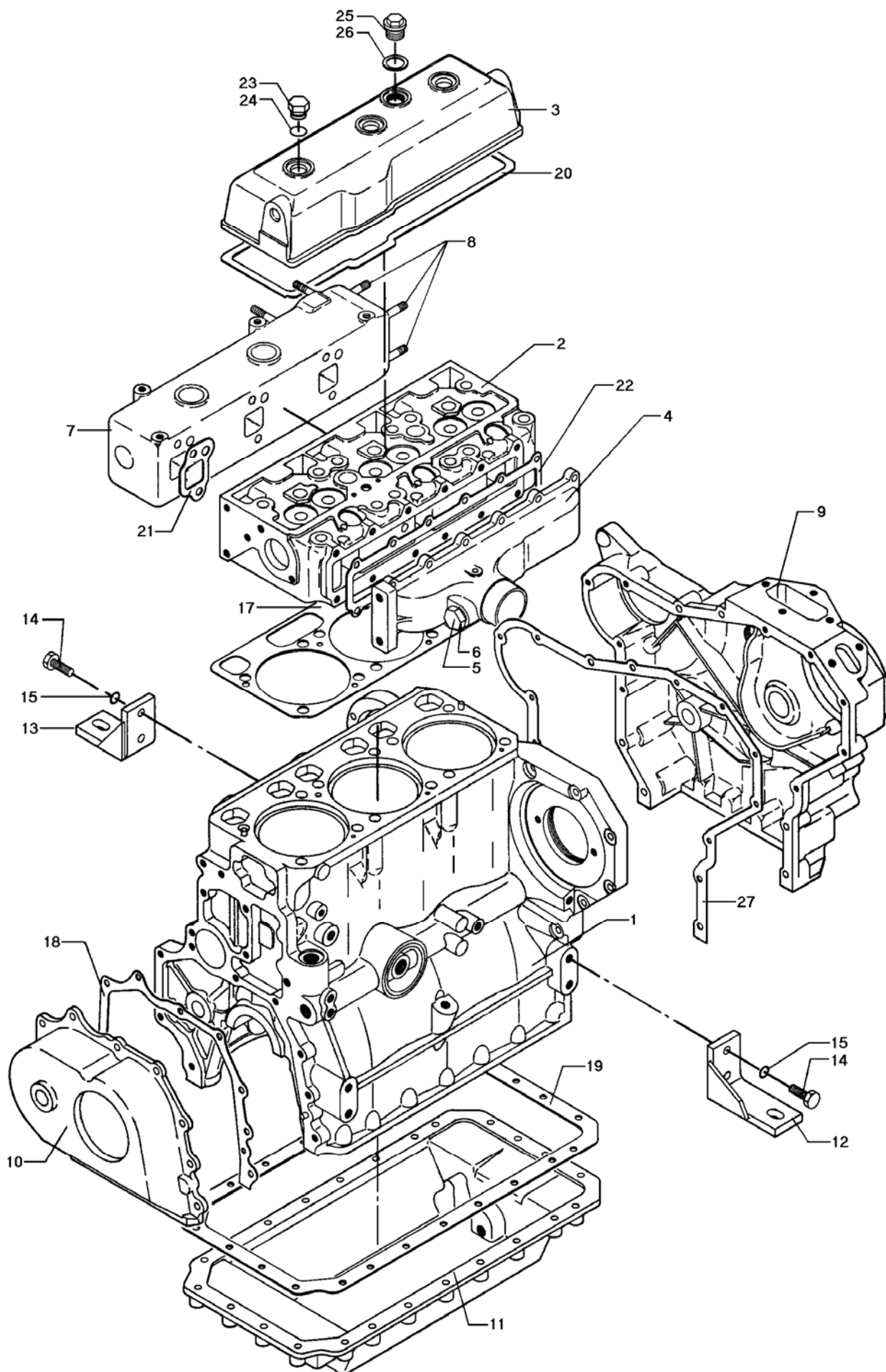
Bei Bestellungen von Ersatzteilen bitten wir um Angabe der Seite und Pos. Nummer, Ersatzteilnummer und –Bezeichnung und der gewünschten Anzahl, und außerdem Typ und Nummer des Motors wie auf dem Typschild des Motors angegeben.

Beispiel für eine Ersatzteilbestellung:

Seite 7, Pos. 33, Nr. 000E6414 Kolbenbolzen, 3 Stück für Motor Typ DV48 Nr. 300162

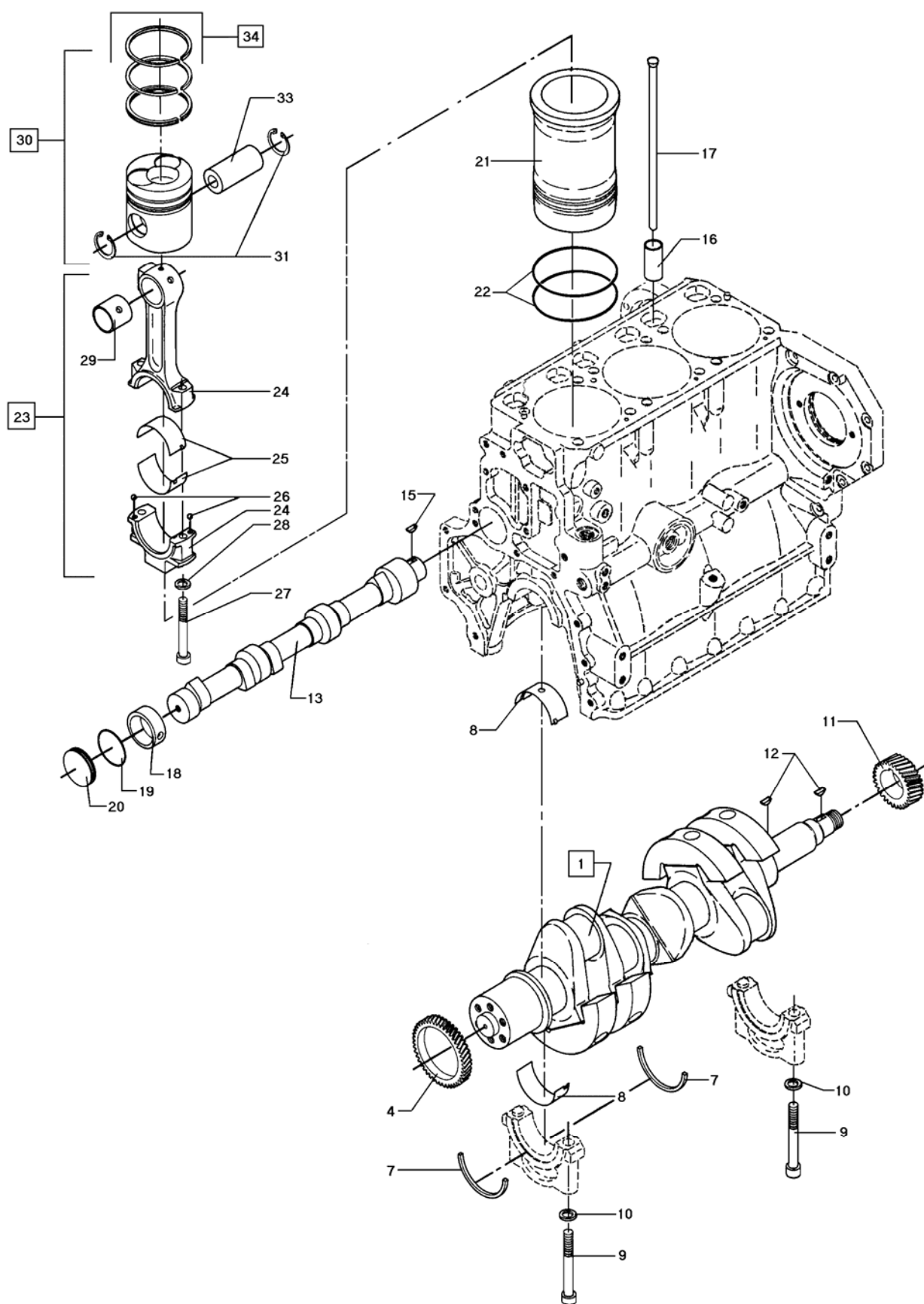
**Indholdsfortegnelse**  
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| <b>Side<br/>Page<br/>Seite</b> | <b>Beskrivelse</b>        | <b>Description</b>              | <b>Benennung</b>              |
|--------------------------------|---------------------------|---------------------------------|-------------------------------|
| 5                              | Krumtaphus                | Crankcase                       | Kurbelgehäuse                 |
| 5                              | Topstykke                 | Cylinder head                   | Zylinderdeckel                |
| 5                              | Endedæksler               | End covers                      | Enddeckel                     |
| 7                              | Krumtapaksel og lejer     | Crankshaft and bearings         | Kurbelwelle und Lager         |
| 7                              | Plejlstang                | Connecting rod                  | Pleuelstange                  |
| 7                              | Stempel og cylinderforing | Piston and cylinder liner       | Kolben und Zylinderlaufbuchse |
| 9                              | Brændstofpumpe            | Fuel injection pump             | Brennstoffpumpe               |
| 9                              | Smøreoliekøler            | Lubricating oil cooler          | Schmierölkühler               |
| 13                             | Indsugning og turbolader  | Air inlet and turbo charger     | Einlass und Turbolader        |
| 15                             | Kølevandspumpe            | Cooling water pump              | Kühlwasserpumpe               |
| 17                             | Ferskvandskøling          | Freshwater cooling              | Süßwasserkühlung              |
| 19                             | Cirkulationspumpe         | Circulating pump                | Umlaufpumpe                   |
| 21                             | Svinghjul                 | Flywheel                        | Schwungrad                    |
| 21                             | Forreste roterende vægt   | Front end rotating weight       | Vordere Rotationsgewicht      |
| 23                             | Bagerste roterende vægt   | Rear end rotating weight        | Hintere Rotationsgewicht      |
| 23                             | Brændstofforpumpe         | Fuel lift pump                  | Förderpumpe                   |
| 27                             | Brændstofindsprøjtning    | Fuel injection                  | Brennstoffeinspritzung        |
| 27                             | Ventiler                  | Valves                          | Ventile                       |
| 31                             | Smøreoliepumpe med rør    | Lubricating oil pump with pipes | Schmierölpumpe mit Rohren     |
| 33                             | Håndstart                 | Hand start                      | Handanlass                    |
| 34                             | Ledningsnet               | Electric mains                  | Leitungsnetz                  |
| 35                             | Betjeningspanel           | Control panel                   | Bedienungstafel               |
| 36                             | Instrumentpanel           | Instrumentpanel                 | Instrumententafel             |
| 37                             | Reversgear                | Reversing gear                  | Wendegetriebe                 |
| 41                             | Værktøj og reservedele    | Tools and spares                | Werkzeug und Ersatzteile      |



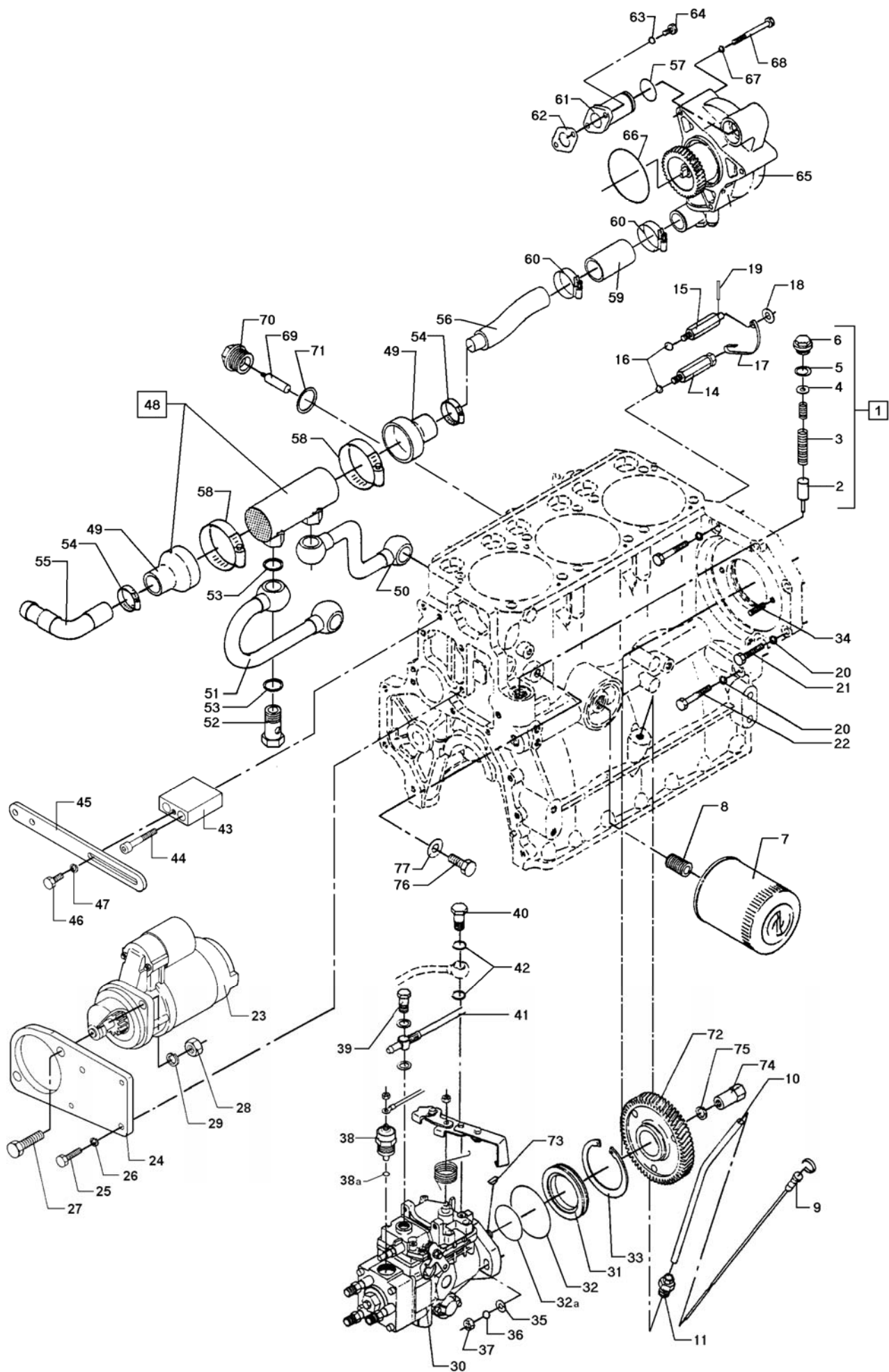
**Krumtaphus, topstykke og dæksler**  
**Crankcase, cylinder head and covers**  
**Kurbelgehäuse, Zylinderdeckel und Deckel**

| Pos. | Part No. | Qty. | Beskrivelse                    | Description                       | Benennung                         |
|------|----------|------|--------------------------------|-----------------------------------|-----------------------------------|
| 1    | 033D0204 | 1    | Krumtaphus, komplet            | Crankcase, complete               | Kurbelgehäuse, komplett           |
| 2    | 033D0401 | 1    | Cylinderdæksel, komplet        | Cylinderhead, complete            | Zylinderdeckel, komplett          |
| 3    | 000E4910 | 1    | Skærm for cylinderdæksel       | Cylinder head cover               | Zylinderkopfhaube                 |
| 4    | 000E4923 | 1    | Indsugningsmanifold            | Intake manifold                   | Einlasssammelrohr                 |
| 5    | 009R2013 | 1    | Prop ½"RG                      | Screw plug ½" BSP                 | Pfropfen ½"RG                     |
| 6    | 522C3031 | 1    | Pakning                        | Gasket                            | Dichtung                          |
| 7    | 000E7434 | 1    | Vandkølet udstødningsmanifold  | Water-cooled exhaust manifold     | Wassergekühltes Auspuffsammelrohr |
| 8    | 503N2367 | 4    | Tapskrue, M8x35                | Stud, M8x35                       | Stiftschraube, M8x35              |
| 9    | 000E4814 | 1    | Bagerste endedæksel            | End cover, rear                   | Enddeckel, hinterer               |
| 10   | 000E4815 | 1    | Forreste endedæksel            | End cover, front                  | Enddeckel, vorderer               |
| 11   | 000E6954 | 1    | Bundkar                        | Oil sump                          | Ölwanne                           |
| 12   | 008E5203 | 2    | Venstre motorophæng            | Engine support, left              | Motoraufhängung, links            |
| 13   | 008E5201 | 2    | Højre motorophæng              | Engine support, right             | Motoraufhängung, rechts           |
| 14   | 500C2416 | 8    | Sætskrue, M10x30 DIN 933       | Set screw, M10x30 DIN 933         | Setzschraube, M10x30 DIN 933      |
| 15   | 522F1023 | 8    | Fjederskive, 10 mm DIN 7980    | Spring washer, 10 mm DIN 7980     | Federscheibe, 10 mm DIN 7980      |
| 17   | 000E4789 | 1    | Toppakning                     | Cylinder head gasket              | Zylinderkopfdichtung              |
| 18   | 000E4817 | 1    | Pakning f. forreste endedæksel | Gasket for front end cover        | Dichtung für vord. Enddeckel      |
| 19   | 000E4783 | 1    | Pakning for bundkar            | Gasket for oil sump               | Dichtung für Ölwanne              |
| 20   | 000E4911 | 1    | Pakning for skærm              | Gasket for cover                  | Dichtung für Schirm               |
| 21   | 000E5028 | 3    | Pakning f. udstødningsmanifold | Gasket for exhaust manifold       | Dichtung für Auspuffsammelrohr    |
| 22   | 000E5025 | 1    | Pakning f. indsugningsmanifold | Gasket for intake manifold        | Dichtung für Einlasssammelrohr    |
| 23   | 000E4912 | 3    | Møtrik for skærm               | Nut for cover                     | Mutter für Schirm                 |
| 24   | 560F0013 | 3    | O-ring                         | O-ring                            | Abdichtring                       |
| 25   | 000E3959 | 1    | Lukkeskrue                     | Locking screw                     | Verschlusschraube                 |
| 26   | 522C3033 | 1    | Pakning                        | Gasket                            | Dichtung                          |
| 27   | 000E4816 | 1    | Pakning f. bagerste endedæksel | Gasket for rear end cover         | Dichtung für hint. Enddeckel      |
|      | 033D4201 | 1    | Pakningssæt, komplet           | Set of gaskets, complete          | Dichtungssatz, komplett           |
|      | 033D4203 | 1    | Ventilslibesæt, komplet        | Set of gaskets for valve grinding | Ventileinschleifensatz, komplett  |



**Krumtapaksel,lejer, plejlstang, stempel og cylinderforing**  
**Crankshaft, bearings, connecting rod, piston, and cylinder liner**  
**Kurbelwelle, Lager, Pleuelstange, Kolben und Zylinderlaufbuchse**

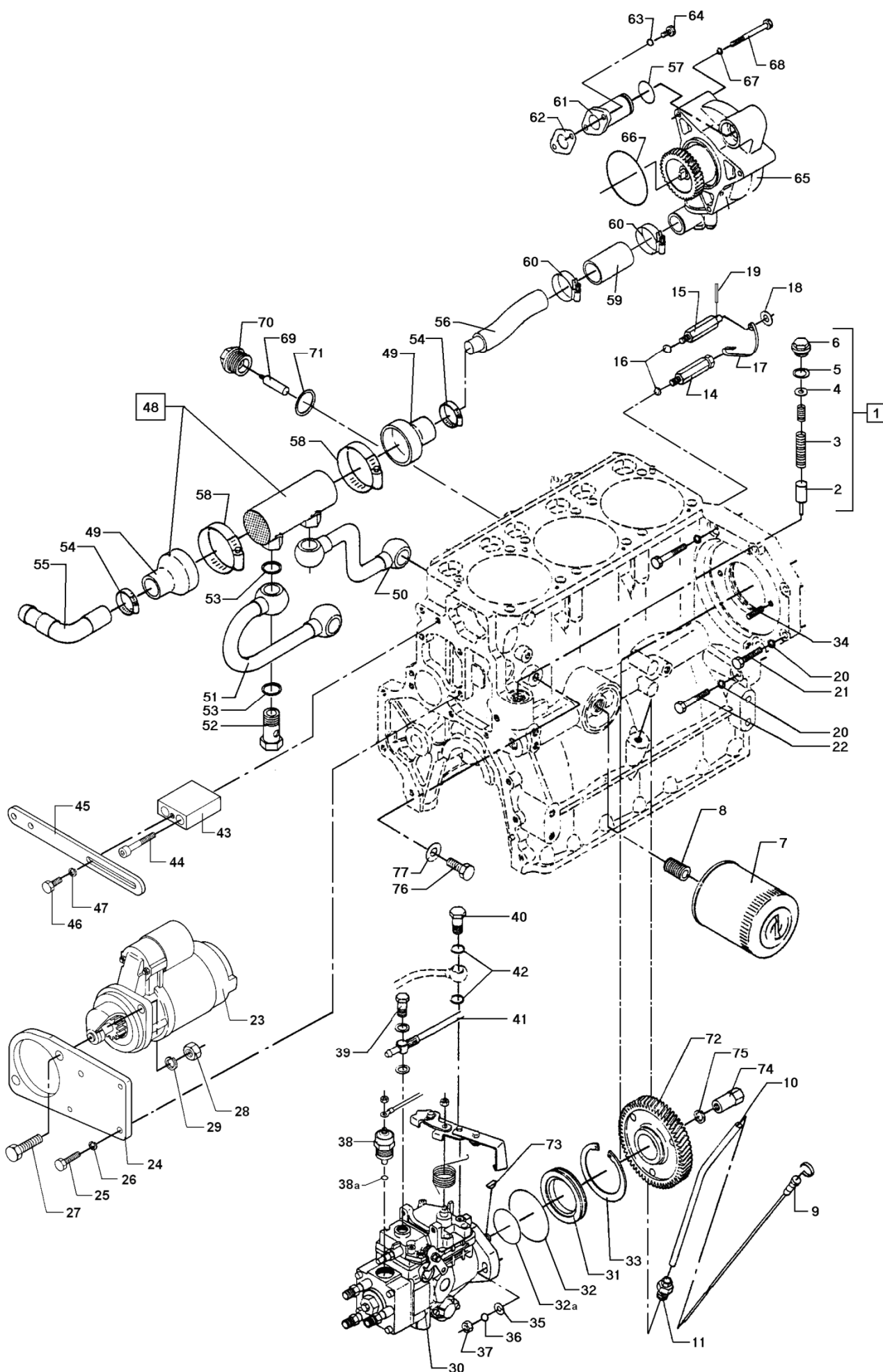
| Pos. | Part No. | Qty. | Beskrivelse                                     | Description                                               | Benennung                                    |
|------|----------|------|-------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|
| 1    | 033D0101 | 1    | Krumtapaksel, komplet                           | Crankshaft, complete                                      | Kurbelwelle, komplett                        |
| 4    | 000E4760 | 1    | Tandhjul, foreste                               | Gearwheel, front                                          | Vordere Zahnrad                              |
| 7    | 000E4766 | 2    | Trykring                                        | Thrust washer                                             | Druckring                                    |
| 8    | 000E4765 | 4    | Hovedleje foring, standard                      | Main bearing liner, standard                              | Hauptlager, Laufbuchse Standard              |
| 8    | 000E5685 | 4    | Hovedleje foring,<br>0,6 mm understørrelse      | Main bearing liner,<br>0,6 mm undersize                   | Hauptlager, Laufbuchse<br>0,6 mm Untergrösse |
| 9    | 501A2478 | 8    | Unbrakoskrue, M12x100                           | Unbraco screw, M12x100                                    | Unbracoschraube, M12x100                     |
| 10   | 000E4557 | 8    | Skive                                           | Washer                                                    | Scheibe                                      |
| 11   | 000E4762 | 1    | Tandhjul, bagerste                              | Gearwheel, rear                                           | Hintere Zahnrad                              |
| 12   | 521B0190 | 1    | Skivefeder                                      | Woodruff key                                              | Scheibenfeder                                |
| 13   | 000E4985 | 1    | Styreaksel                                      | Camshaft                                                  | Nockenwelle                                  |
| 13   | 033D0801 | 1    | Styreaksel, kpl. med tandhjul                   | Camshaft, cpl. With gearwheel                             | Nockenwelle, kpl. mit Zahnrad                |
| 15   | 521B0163 | 1    | Skivefeder                                      | Woodruff key                                              | Scheibenfeder                                |
| 16   | 000E4987 | 6    | Styr for stødstang                              | Guide for push rod                                        | Steuer für Stossstange                       |
| 17   | 000E9455 | 6    | Stødstang                                       | Push rod                                                  | Stossstange                                  |
| 18   | 000E4787 | 1    | Leje for styreaksel                             | Bearing for camshaft                                      | Lager für Nockenwelle                        |
| 19   | 560K0044 | 4    | O-ring                                          | O-ring                                                    | Abdichtring                                  |
| 20   | 000E4786 | 1    | Dæksel                                          | Cover                                                     | Deckel                                       |
| 21   | 000E4788 | 3    | Cylinderforing                                  | Cylinder liner                                            | Zylinderlaufbuchse                           |
| 22   | 560K1094 | 6    | O-ring                                          | O-ring                                                    | Abdichtring                                  |
| 24   | 008E6332 | 3    | Plejlstang, komplet                             | Connecting rod, complete                                  | Pleuelstange, komplett                       |
| 25   | 000E0563 | 3    | Plejlstangspander, sæt                          | Connecting rod bearing shells, set of                     | Pleuellager, Satz                            |
| 25   | 000E0233 | 3    | Plejlstangspander, sæt<br>0,6 mm understørrelse | Connecting rod bearing shells, set of<br>0,6 mm undersize | Pleuellager, Satz<br>0,6 mm Untergrösse      |
| 26   | 545Ø2061 | 6    | Kugle                                           | Ball                                                      | Kugel                                        |
| 27   | 501A2423 | 6    | Plejlstangsbolt                                 | Connecting rod bolt                                       | Pleuelbolzen                                 |
| 28   | 522E0527 | 6    | Låseskive                                       | Locking washer                                            | Sicherungsscheibe                            |
| 29   | 000E4863 | 3    | Foring for plejlstang                           | Connecting rod liner                                      | Laufbuchse für Pleuelstange                  |
| 30   | 023D0302 | 3    | Stempel kompl. med pind og ringe                | Piston compl. with pin and rings                          | Kolben kompl. mit Bolzen und Ringen          |
| 31   | 522A0032 | 6    | Seegerring 32 DIN 472                           | Circlip 32 DIN 472                                        | Seegerring 32 DIN 472                        |
| 33   | 000E6414 | 3    | Stempelpind                                     | Gudgeon pin                                               | Kolbenbolzen                                 |
| 34   | 033D0301 | 3    | Stempelringssæt                                 | Piston rings, set of                                      | Kolbenringsatz                               |





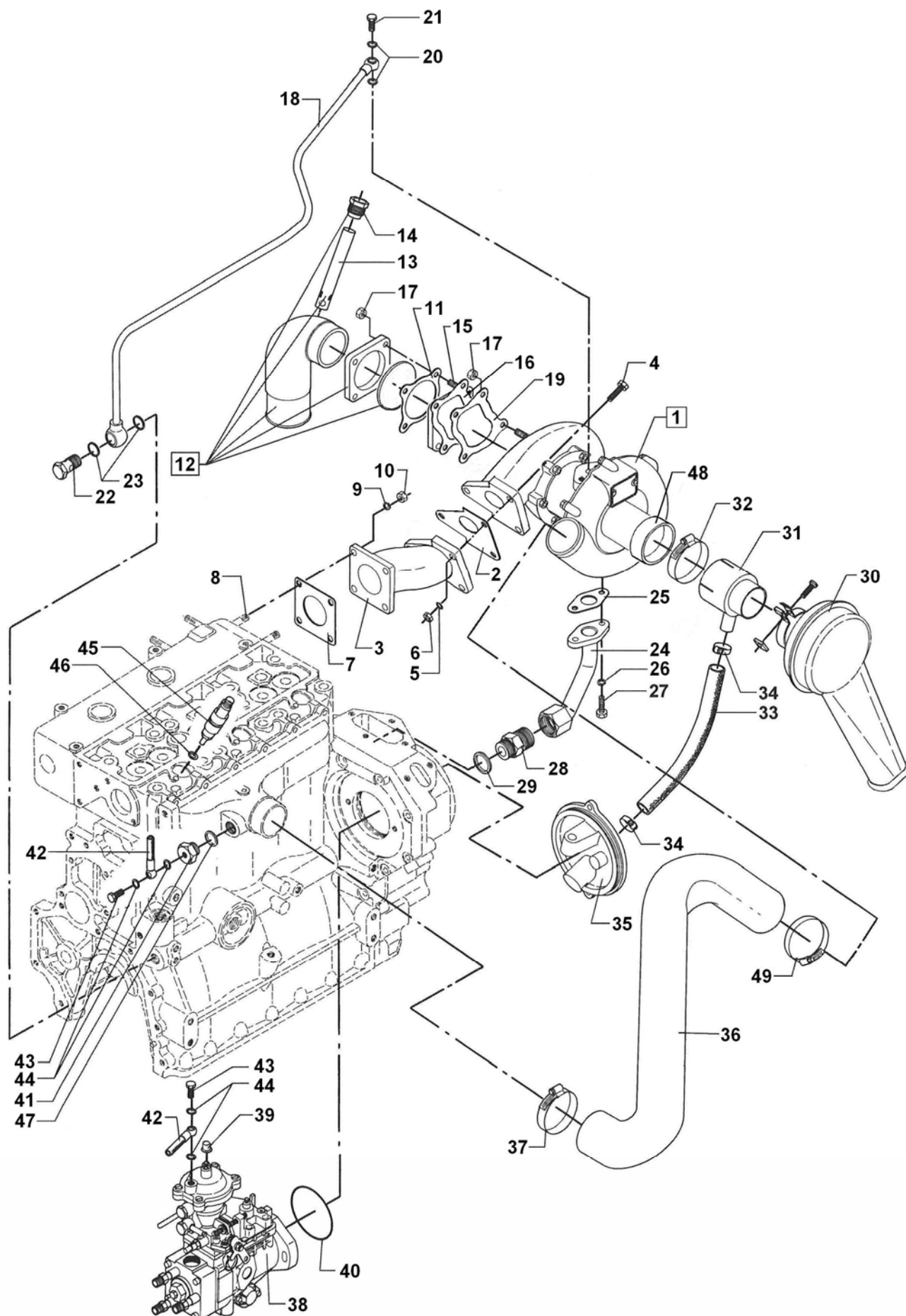
**Indsprøjtningpumpe og oliekoeler**  
**Injection pump and oil cooler**  
**Einspritzpumpe und Ölkühler**

| Pos. | Part No. | Qty. | Beskrivelse                    | Description                | Benennung                    |
|------|----------|------|--------------------------------|----------------------------|------------------------------|
| 1    | 033D1301 | 1    | Overtryksventil komplet        | Relief valve complete      | Überdruckventil komplett     |
| 2    | 000E5035 | 1    | Stempel for overtryksventil    | Piston                     | Kolben                       |
| 3    | 000E5036 | 1    | Fjeder for overtryksventil     | Spring                     | Feder                        |
| 4    | 000E5037 | 3    | °) Skive for overtryksventil   | °) Washer                  | °) Scheibe                   |
| 5    | 522C3027 | 1    | Pakning, kobber                | Gasket, copper             | Dichtung, Kupfer             |
| 6    | 000E5160 | 1    | Lukkeskrue for overtryksventil | Closing screw              | Verschlusscheibe             |
| 7    | 610J0200 | 1    | Smøreoliefilter                | Oil filter                 | Schmierölfilter              |
| 8    | 000D9846 | 1    | Nippel for smøreoliefilter     | Nipple for lub oil filter  | Nippel für Schmierölfilter   |
| 9    | 008E4821 | 1    | Pejlestok med prop             | Dip stick with plug        | Peilstock mit Pfropfen       |
| 10   | 000E4823 | 1    | Rør for pejlestok              | Pipe for dip stick         | Rohr für Peilstock           |
| 11   | 532V1314 | 1    | Tankgennemføring               | Leading-in pipe            | Tankdurchführung             |
| 14   | 000E4812 | 1    | Bolt for kædestrammer          | Bolt for chain adjuster    | Bolzen für Kettenspanner     |
| 15   | 000E4811 | 1    | Bolt for kædestrammer          | Bolt for chain adjuster    | Bolzen für Kettenspanner     |
| 16   | 522F1020 | 2    | Fjederskive                    | Spring washer              | Federscheibe                 |
| 17   | 000E4813 | 1    | Kædestrammer                   | Chain adjuster             | Kettenspanner                |
| 18   | 522C1223 | 1    | Underlagsskive                 | Washer                     | Unterlagsscheibe             |
| 19   | 520J0209 | 1    | Split                          | Split pin                  | Splint                       |
| 20   | 522F1020 | 3    | Fjederskive                    | Spring washer              | Federscheibe                 |
| 21   | 500D2366 | 2    | Maskinbolt M8 x 30             | Machine bolt M8 x 30       | Sechskantschraube M8 x 30    |
| 22   | 500D2365 | 1    | Maskinbolt M8 x 25             | Machine bolt M8 x 25       | Sechskantschraube M8 x 25    |
| 23   | 612A1650 | 1    | Startmotor                     | Starting motor             | Anlassmotor                  |
| 24   | 000E5092 | 1    | Konsol for startmotor          | Bracket for starting motor | Konsole für Anlassmotor      |
| 25   | 500C2365 | 4    | Sætskrue                       | Set screw                  | Setzschraube                 |
| 26   | 522F1020 | 4    | Fjederskive                    | Spring washer              | Federscheibe                 |
| 27   | 500C2467 | 2    | Sætskrue                       | Set screw                  | Setzschraube                 |
| 28   | 510A1210 | 2    | Møtrik                         | Nut                        | Mutter                       |
| 29   | 522F1025 | 2    | Fjederskive                    | Spring washer              | Federscheibe                 |
| 30   | 610A3300 | 1    | Indsprøjtningpumpe             | Injection pump             | Einspritzpumpe               |
| 31   | 000E4977 | 1    | Mellemring                     | Intermediate ring          | Zwischenring                 |
| 32   | 560K1069 | 1    | O-ring                         | O-ring                     | Abdichtring                  |
| 32a  | 560F1032 | 1    | O-ring                         | O-ring                     | Abdichtring                  |
| 33   | 522A0075 | 1    | Sikringsring                   | Circlip                    | Sprengring                   |
| 34   | 503N2365 | 2    | Tapskrue                       | Stud                       | Stiftschraube                |
| 35   | 522C1223 | 2    | Underlagsskive                 | Washer                     | Unterlagsscheibe             |
| 36   | 522F1020 | 2    | Fjederskive                    | Spring washer              | Federscheibe                 |
| 37   | 510A1208 | 2    | Møtrik                         | Nut                        | Mutter                       |
| 38   | 610A3089 | 1    | Stopmagnet, 12V                | Stop solenoid, 12V         | Anschlagmagnet, 12V          |
| 38   | 610A3090 | 1    | Stopmagnet, 24V                | Stop solenoid, 24V         | Anschlagmagnet, 24V          |
| 38a  | 560F0009 | 1    | O-ring                         | O-ring                     | Abdichtring                  |
| 39   | 610A3091 | 1    | Hulskrue                       | Banjo bolt                 | Hohlschraube                 |
| 40   | 531Z0053 | 1    | Hulskrue                       | Banjo bolt                 | Hohlschraube                 |
| 41   | 008E8587 | 1    | Lækolieforbindelse             | Leak oil connection        | Leckölverbindung             |
| 42   | 522C3016 | 2    | Pakning, kobber                | Gasket, copper             | Dichtung, Kupfer             |
| 43   | 000E5068 | 1    | Konsol for strammejern         | Bracket for tension device | Konsole für Spannvorrichtung |
| 44   | 501A2370 | 2    | Unbrakoskrue, M8x50            | Unbraco screw, M8x50       | Unbracoschraube, M8x50       |
| 45   | 000E6302 | 1    | Strammejern                    | Tension device             | Spannvorrichtung             |
| 46   | 500C2363 | 1    | Sætskrue                       | Set screw                  | Setzschraube                 |
| 47   | 522F1020 | 1    | Fjederskive                    | Spring washer              | Federscheibe                 |
| 48   | 610E0010 | 1    | Oliekoeler                     | Oil cooler                 | Ölkühler                     |
| 49   | 610E0011 | 2    | Endedæksel                     | End cover                  | Enddeckel                    |



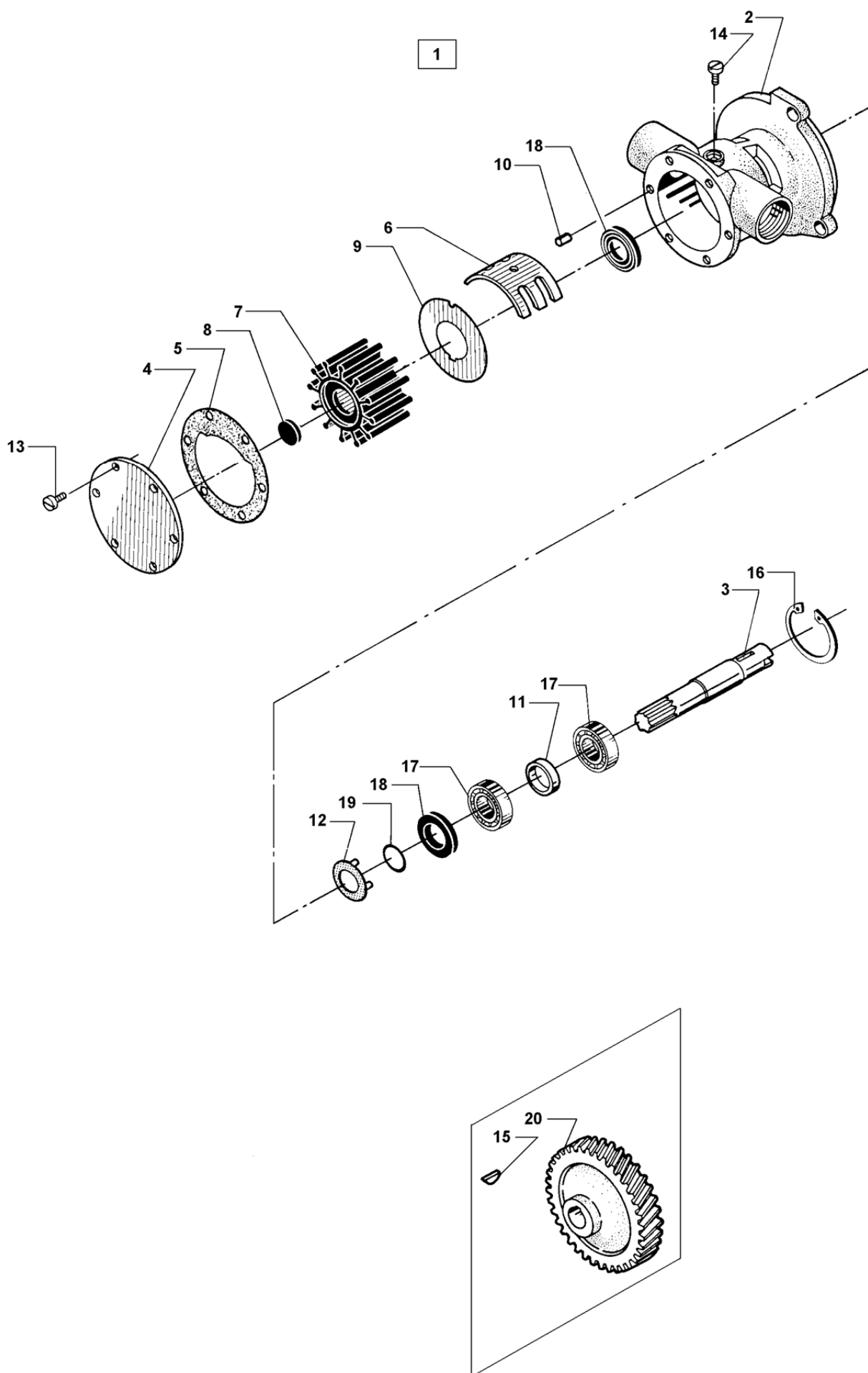
**Indsprøjtningpumpe og oliekoeler**  
**Injection pump and oil cooler**  
**Einspritzpumpe und Ölkühler**

| Pos. | Part No. | Qty. | Beskrivelse                               | Description                                 | Benennung                                    |
|------|----------|------|-------------------------------------------|---------------------------------------------|----------------------------------------------|
| 50   | 008E6264 | 1    | Rør for oliekoeler komplet                | Pipe for oil cooler complete                | Rohr für Ölkühler komplett                   |
| 51   | 008E6263 | 1    | Rør for oliekoeler komplet                | Pipe for oil cooler complete                | Rohr für Ölkühler komplett                   |
| 52   | 531Z0190 | 4    | Hulskrue                                  | Banjo bolt                                  | Hohlschraube                                 |
| 53   | 522C3031 | 8    | Pakning, kobber                           | Gasket, copper                              | Dichtung, Kupfer                             |
| 54   | 569A0025 | 2    | Spændebånd                                | Clamping ring                               | Klemmband                                    |
| 55   | 532C0291 | 1    | Tilgangsrør for oliekoeler                | Inlet pipe                                  | Einlassrohr                                  |
| 56   | 008E6065 | 1    | Afgangsrør for oliekoeler                 | Outlet pipe                                 | Auslassrohr                                  |
| 57   | 560F1023 | 1    | O-ring                                    | O-ring                                      | Abdichtring                                  |
| 58   | 569A0035 | 2    | Spændebånd                                | Clamping ring                               | Klemmband                                    |
| 59   | 530A1745 | 1    | Slange, gummi, 5 cm                       | Rubber tube, 5 cm                           | Schlauch, gummi, 5 cm                        |
| 60   | 569A0030 | 2    | Spændebånd                                | Clamping ring                               | Klemmband                                    |
| 61   | 008E4935 | 1    | Kølevandsrør                              | Cooling water pipe                          | Kühlwasserrohr                               |
| 62   | 000E5234 | 1    | Pakning f. kølevandsrør                   | Gasket f. cooling water pipe                | Dichtung f. Kühlwasserrohr                   |
| 63   | 522F1020 | 2    | Fjederskive                               | Spring washer                               | Federscheibe                                 |
| 64   | 500C2365 | 2    | Sætskrue M8x25                            | Set screw M8x25                             | Setzschraube M8x25                           |
| 65   | 008E6560 | 1    | *) Kølevandspumpe                         | *) Cooling water pump                       | *) Kühlwasserpumpe                           |
| 66   | 560K0079 | 1    | O-ring                                    | O-ring                                      | Abdichtring                                  |
| 67   | 522F1020 | 3    | Fjederskive                               | Spring washer                               | Federscheibe                                 |
| 68   | 500D2376 | 3    | Maskinskrue                               | Machine bolt                                | Sechskantschraube                            |
| 69   | 000E0450 | 1    | Zinkanode uden prop                       | Zinc rod without plug                       | Zinkanode ohne Pfropfen                      |
| 70   | 000E4819 | 1    | Prop for zinkanode                        | Plug for zinc anode                         | Pfropfen für Zinkanode                       |
| 71   | 522C3047 | 1    | Pakning, kobber                           | Gasket, copper                              | Dichtung, Kupfer                             |
| 72   | 000E4947 | 1    | Tandhjul f. indsprøjtningpumpe            | Gear f. injection pump                      | Zahnrad f. Einspritzpumpe                    |
| 73   | 521B0160 | 1    | Skivefjeder                               | Spring washer                               | Scheibenfeder                                |
| 74   | 000E4978 | 1    | Møtrik f. indsprøjtningpumpe              | Nut for injection pump                      | Mutter für Einspritzpumpe                    |
| 75   | 522F1025 | 1    | Fjederskive                               | Spring washer                               | Federscheibe                                 |
| 76   | 504C1317 | 1    | Drænprop M14 x 1,5                        | Drain plug M14 x 1.5                        | Ablasstopfen M14 x 1,5                       |
| 77   | 522C3021 | 1    | Pakning, kobber                           | Gasket, copper                              | Dichtung, Kupfer                             |
|      |          |      | °) Efter behov                            | °) According to requirement                 | °) Nach Bedarf                               |
|      |          |      | *) Reservedelsspecifikation<br>se side 19 | *) Spare parts specification<br>see page 19 | *) Ersatzteilspezifikation<br>siehe Seite 19 |



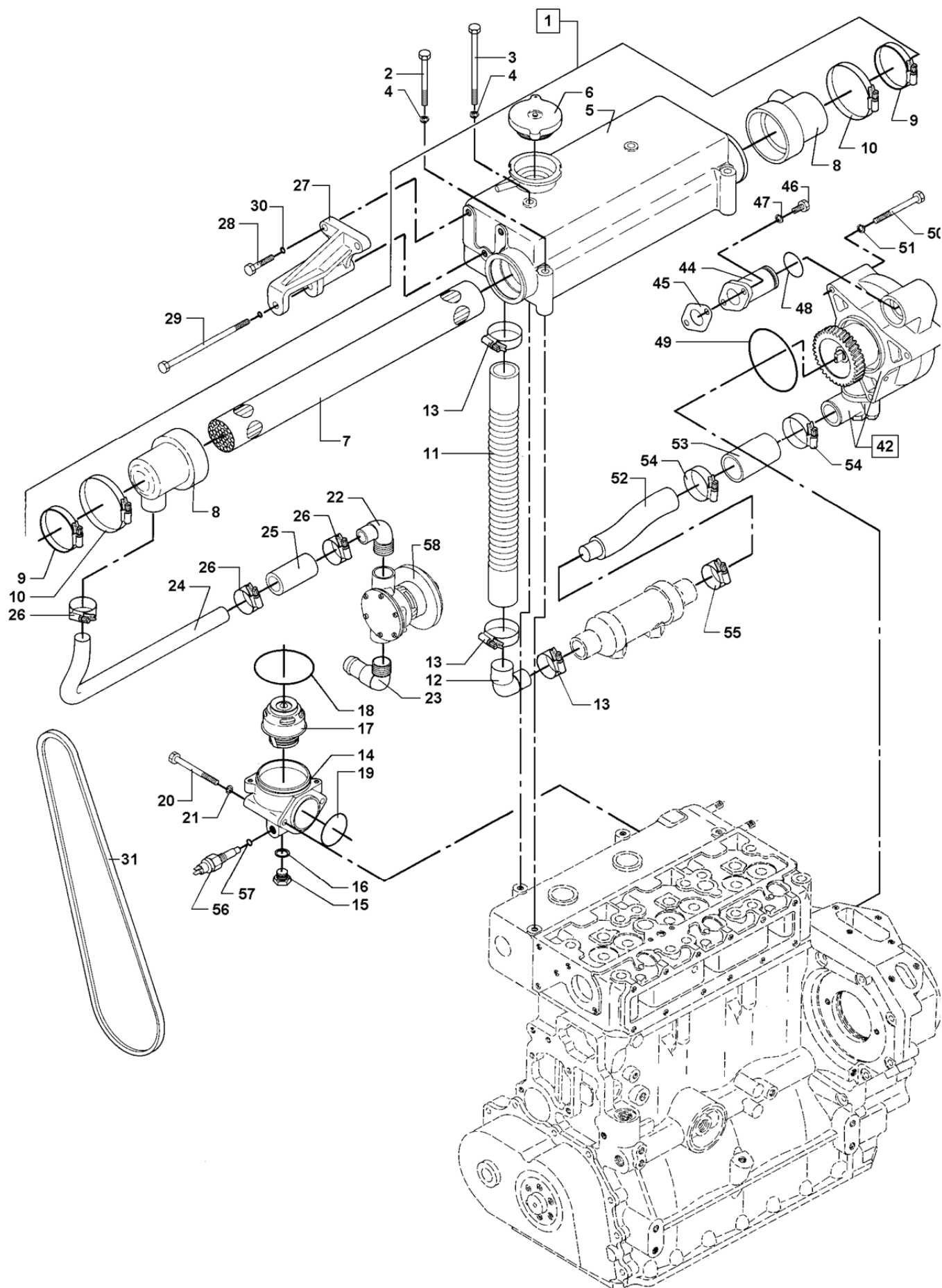
# Indsugning og turbolader Air inlet and turbo charger Einlass und Turbolader

| Pos. | Part No. | Qty. | Beskrivelse                  | Description                    | Benennung                     |
|------|----------|------|------------------------------|--------------------------------|-------------------------------|
| 1    | 611L0150 | 1    | Turbolader                   | Turbocharger                   | Turbolader                    |
| 2    | 611L0102 | 1    | Pakning for turbolader       | Gasket for turbocharger        | Dichtung für Turbolader       |
| 3    | 000E9594 | 1    | Rør for turbolader           | Pipe for turbocharger          | Rohr für Turbolader           |
| 4    | 500K2366 | 3    | Sætskrue M8x30, rustfri      | Set screw, M8x30, stainless    | Setzschraube, M8x30, Rostfrei |
| 5    | 522F1020 | 3    | Fjederskive M8               | Spring washer M8               | Federscheibe M8               |
| 6    | 511F0258 | 3    | Låsemøtrik M8, rustfri       | Nut M8, self-locking stainless | Mutter M8, selvstverriegelnd  |
| 7    | 000E5360 | 1    | Pakning for udstødning       | Gasket for exhaust             | Dichtung für Auspuff          |
| 8    | 503N2367 | 4    | Tapskrue M8x35               | Stud M8x35                     | Stiftschraube M8x35           |
| 9    | 522F1020 | 4    | Fjederskive M8               | Spring washer M8               | Federscheibe M8               |
| 10   | 511F0258 | 4    | Låsemøtrik M8, rustfri       | Nut M8, self-locking stainless | Mutter M8, selvstverriegelnd  |
| 11   | 000E6451 | 1    | Pakning for udstødning       | Gasket for exhaust             | Dichtung für Auspuff          |
| 12   | 008E7411 | 1    | Udstødningsbøjning, kompl.   | Exhaust bend, cpl.             | Auspuffbogen, kompl.          |
| 13   | 000E5359 | 1    | Rør for kølevandsafgang      | Pipe for cooling water outlet  | Rohr für Kühlwasserauslass    |
| 14   | 000E8696 | 1    | Nippelmøtrik                 | Nut                            | Nippelmutter                  |
| 15   | 503N2367 | 4    | Tapskrue M8x35               | Stud M8x35                     | Stiftschraube M8x35           |
| 16   | 000E9595 | 1    | Mellemflange                 | Intermediate flange            | Zwischenflansch               |
| 17   | 511F0258 | 7    | Låsemøtrik M8, rustfri       | Nut M8, self-locking stainless | Mutter M8, selvstverriegelnd  |
| 18   | 008E8223 | 1    | Smørerør for turbolader      | Lubr. pipe for turbocharger    | Schmierölrohr für Turbolader  |
| 19   | 611L0101 | 1    | Pakning for mellemflange     | Gasket for intermediate flange | Dichtung für Zwischenflansch  |
| 20   | 522C3016 | 2    | Kobberpakning, Ø12/Ø15,5x1,5 | Copper gasket, Ø12/Ø15.5x1.5   | Kupferdichtung, Ø12/Ø15,5x1,5 |
| 21   | 531Z0160 | 1    | Banjobolt                    | Banjo bolt                     | Hohlschraube                  |
| 22   | 531Z0056 | 1    | Banjobolt                    | Banjo bolt                     | Hohlschraube                  |
| 23   | 522C3027 | 2    | Kobberpakning, Ø18/Ø22x1,5   | Copper gasket, Ø18/Ø22x1.5     | Kupferdichtung, Ø18/Ø22x1,5   |
| 24   | 008E9596 | 1    | Returrør fra turbolader      | Return pipe from turbocharger  | Rücklaufrohr von Turbolader   |
| 25   | 000E8074 | 1    | Pakning for returrør         | Gasket for return pipe         | Dichtung für Rücklaufrohr     |
| 26   | 522F1017 | 2    | Fjederskive M6               | Spring washer M6               | Federscheibe M6               |
| 27   | 500C2311 | 2    | Sætskrue M6x16               | Set screw, M6x16               | Setzschraube, M6x16           |
| 28   | 000E8217 | 1    | Brystnippel                  | Short nipple                   | Brustnippel                   |
| 29   | 522C3092 | 1    | Kobberpakning, Ø26,5/Ø32x2,5 | Copper gasket, Ø26.5/Ø32x2.5   | Kupferdichtung, Ø26.5/Ø32x2,5 |
| 30   | 008E7310 | 1    | Luftfilter                   | Air filter                     | Luftfilter                    |
| 31   | 008E8708 | 1    | Overgangsrør for luftfilter  | Intermediate pipe              | Übergangsrohr                 |
| 32   | 569A0030 | 1    | Spændebånd, Ø33/Ø57          | Clamping ring, Ø33/Ø57         | Klemmband, Ø33/Ø57            |
| 33   | 530P0009 | 1    | Slange                       | Hose                           | Schlauch                      |
| 34   | 569A0010 | 3    | Spændebånd, Ø6/Ø16           | Clamping ring, Ø6/Ø16          | Klemmband, Ø6/Ø16             |
| 35   | 008E8859 | 1    | Dæksel med afluftningsventil | Cover with venting valve       | Deckel mit Entlüftungsventil  |
| 36   | 000E8062 | 1    | Turboladerslange             | Turbocharger hose              | Turboladerschlauch            |
| 37   | 569A0040 | 1    | Spændebånd, Ø59/Ø83          | Clamping ring, Ø59/Ø83         | Klemmband, Ø59/Ø83            |
| 38   | 610A3300 | 1    | Indsprøjtningpumpe           | Fuel injection pump            | Einspritzpumpe                |
| 39   | 539K0513 | 1    | Tophætte for møtrik          | Top cap for nut                | Oberkappe für Mutter          |
| 40   | 560F1032 | 1    | O-ring Ø51,6x2,4             | O-ring Ø51.6x2.4               | O-ring Ø51,6x2,4              |
| 41   | 000E6364 | 1    | Overgangsnippel              | Reduction nipple               | Verbindungsnippel             |
| 42   | 008E9811 | 1    | Slange for ladetryk          | Hose for charge pressure       | Schlauch für Ladedruck        |
| 43   | 531Z0051 | 2    | Banjobolt                    | Banjo bolt                     | Hohlschraube                  |
| 44   | 522C3008 | 4    | Kobberpakning, Ø8/Ø11,5x1    | Copper gasket, Ø8/Ø11.5x1      | Kupferdichtung, Ø8/Ø11,5x1    |
| 45   | 610B9250 | 3    | Indsprøjtningssdyse, kompl.  | Nozzle, cpl.                   | Einspritzdüse, kompl.         |
| 46   | 522C3082 | 3    | Kobberpakning, Ø7,5/Ø15x1    | Copper gasket, Ø7.5/Ø15x1      | Kupferdichtung, Ø7.5/Ø15x1    |
| 47   | 522C3031 | 1    | Kobberpakning, Ø21/Ø26x1,5   | Copper gasket, Ø21/Ø26x1.5     | Kupferdichtung, Ø21/Ø26x1,5   |
| 48   | 000E9598 | 1    | Mellemring                   | Spacer                         | Zwischenring                  |
| 49   | 569A0035 | 1    | Spændebånd, Ø48/Ø70          | Clamping ring, Ø48/Ø70         | Klemmband, Ø48/Ø70            |



**Kølevandspumpe**  
**Cooling water pump**  
**Kühlwasserpumpe**

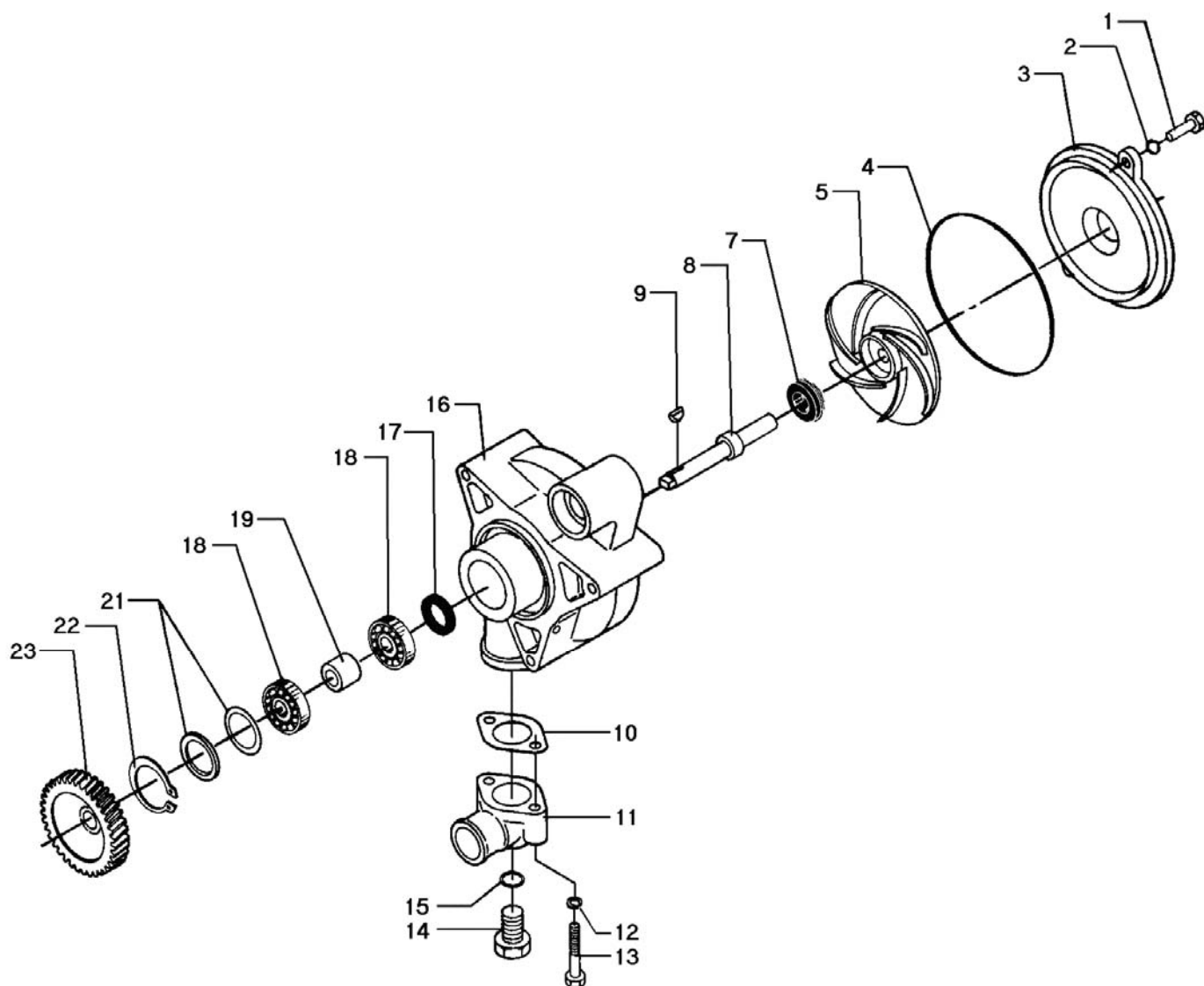
| Pos. | Part No. | Qty.<br>*) | Qty.<br>**) | Beskrivelse                         | Description                            | Benennung                                          |
|------|----------|------------|-------------|-------------------------------------|----------------------------------------|----------------------------------------------------|
| 1    | 008E6254 | 1          |             | Pumpe, komplet                      | Pump, complete                         | Pumpe, Komplett                                    |
| 1    | 008E7234 |            | 1           | Pumpe, komplet                      | Pump, complete                         | Pumpe, Komplett                                    |
| 2    | 610G0291 | 1          | 1           | Pumpehus                            | Pump housing                           | Pumpengehäuse                                      |
| 3    | 610G0292 | 1          | 1           | Aksel                               | Shaft                                  | Welle                                              |
| 4    | 610G0502 | 1          | 1           | x) Endedæksel                       | x) End cover                           | x) End Deckel                                      |
| 5    | 610G0503 | 1          | 1           | x) Pakning                          | x) Gasket                              | x) Dichtung                                        |
| 6    | 610G0222 | 1          |             | Kam                                 | Cam                                    | Nocken                                             |
| 6    | 610G0251 |            | 1           | Kam                                 | Cam                                    | Nocken                                             |
| 7    | 610G0506 | 1          | 1           | x) Løbehjul                         | x) Impeller                            | x) Laufrad                                         |
| 8    | 610G0509 | 1          | 1           | x) Brik                             | x) Block                               | x) Riegel                                          |
| 9    | 610G0507 | 1          | 1           | x) Slidskive                        | x) Wear plate                          | x) Schleissblech                                   |
| 10   | 610G0508 | 1          | 1           | Stift                               | Pin                                    | Stift                                              |
| 11   | 610G0293 | 1          | 1           | Afstandsring                        | Distance ring                          | Distanzring                                        |
| 12   | 610G0294 | 1          | 1           | Skive                               | Washer                                 | Scheibe                                            |
| 13   | 502J2207 | 6          | 6           | x) Skrue                            | x) Screw                               | x) Schraube                                        |
| 14   | 610G0225 | 1          | 1           | Skrue                               | Screw                                  | Schraube                                           |
| 15   | 521B0130 | 1          |             | x) Feder                            | x) Key                                 | x) Feder                                           |
| 16   | 522A0040 | 1          | 1           | x) Låsering                         | x) Locking ring                        | x) Schlossring                                     |
| 17   | 545A0193 | 2          | 2           | Kugleleje                           | Ball bearing                           | Kugellager                                         |
| 18   | 561B0162 | 2          | 2           | x) Tætningsring                     | x) Seal ring                           | x) Dichtringsring                                  |
| 19   | 610G0295 | 1          | 1           | x) O-ring                           | x) O-ring                              | x) O-ring                                          |
| 20   | 000E6252 | 1          |             | Tandhjul                            | Gearwheel                              | Zahnrad                                            |
|      | 610G0296 | 1          | 1           | Reparationssæt                      | Repair kit                             | Reparatursatz                                      |
|      |          |            |             | x) Dele som indgår i reparationssæt | x) Parts which form part of repair kit | x) Teile, die im Reparatursatz eingeschlossen sind |
| *)   | 008E6254 |            |             | For søvandskølede motorer           | For seawater cooled engines            | Für Seewassergekühlte Motoren                      |
| *)   | 008E7234 |            |             | For ferskvandskølede motorer        | For freshwater cooled engines          | Für Süßwassergekühlte Motoren                      |





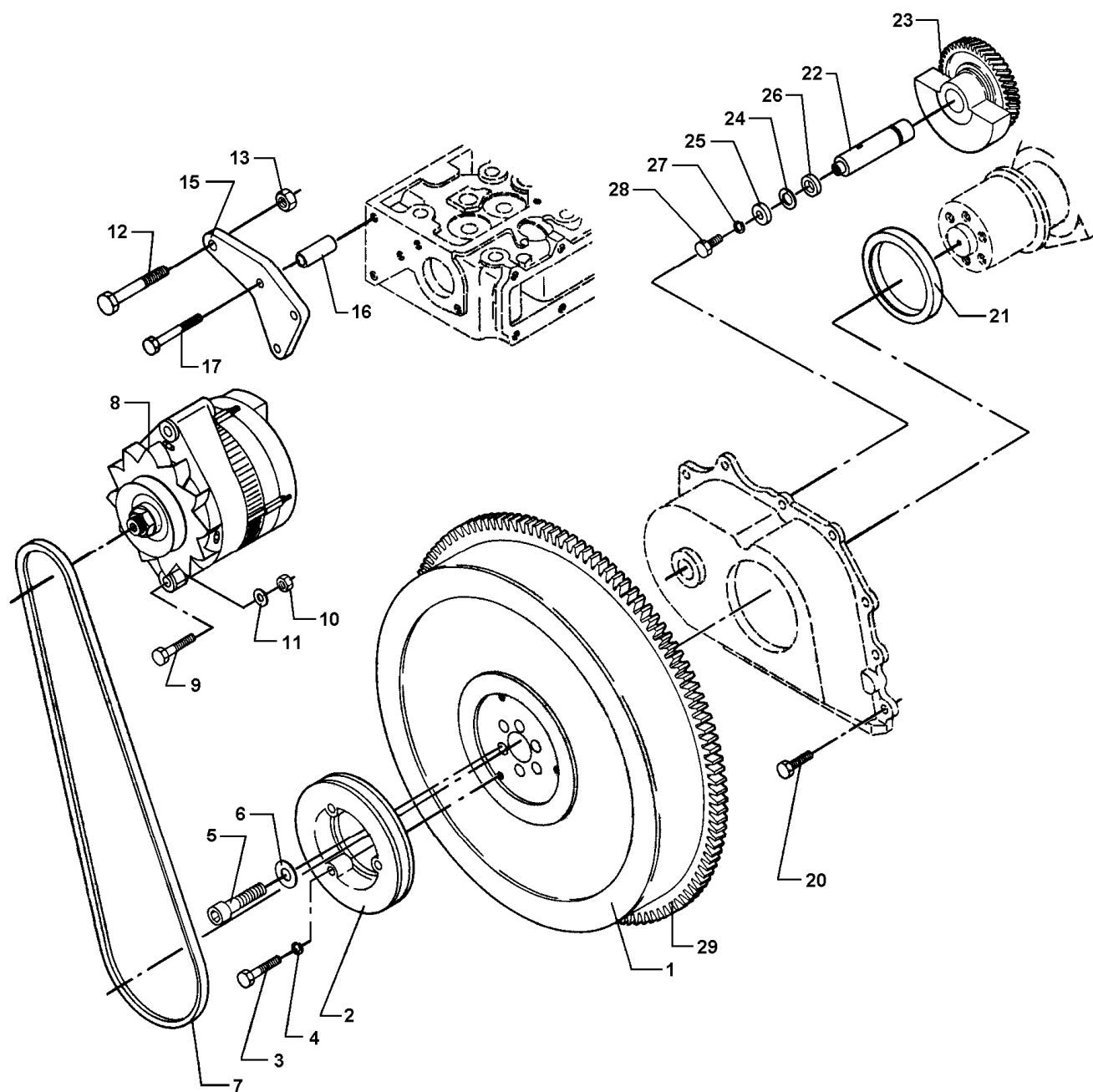
**Ferskvandskøling**  
**Freshwater cooling**  
**Süßwasserkühlung**

| Pos. | Part No.  | Qty. | Beskrivelse                           | Description                      | Benennung                           |
|------|-----------|------|---------------------------------------|----------------------------------|-------------------------------------|
| 1    | 008E53221 | 1    | Ferskvandskøler komplet               | Freshwater cooler complete       | Süßwasserkühler komplett            |
| 2    | 500D2426  | 2    | Maskinbolt M10 x 80                   | Machine bolt M10 x 80            | Sechskantschraube M10 x 80          |
| 3    | 500D2430  | 2    | Maskinbolt M10 x 120                  | Machine bolt M10 x 120           | Sechskantschraube M10 x 120         |
| 4    | 522F1023  | 4    | Fjederskive                           | Spring washer                    | Federscheibe                        |
| 5    | 008E7421  | 1    | Hus for varmeveksler                  | Heat exchanger housing           | Gehäuse für Süßwasserkühler         |
| 6    | 530Q9923  | 1    | Tryk-vakuumentil                      | Relief vacuum valve              | Druck-Vakuumentil                   |
| 7    | 610E0500  | 1    | Rørelement                            | Pipe element                     | Rohrelement                         |
| 8    | 610E0502  | 2    | Endedæksel                            | End cover                        | Enddeckel                           |
| 9    | 569A0035  | 2    | Spændebånd, rustfri                   | Clamping ring                    | Klemmband                           |
| 10   | 569A0045  | 2    | Spændebånd, rustfri                   | Clamping ring                    | Klemmband                           |
| 11   | 530Q0009  | 1    | Fleksibel kølerslange                 | Flexible radiator hose           | Flexibel Kühlerschlauch             |
| 12   | 532C0291  | 1    | Loddevinkel                           | Soldering elbow                  | Lötkrümmer                          |
| 13   | 569A0025  | 1    | Spændebånd                            | Clamping ring                    | Klemmband                           |
| 14   | 000E6156  | 1    | Termostathus                          | Thermostat housing               | Thermostatengehäuse                 |
| 14   | 033D6501  | 1    | Termostathus med prop                 | Thermostat housing with plug     | Thermostatengehäuse mit Stopfen     |
| 15   | 009R2012  | 1    | Prop, 3/8" RG                         | Plug, 3/8" BSP                   | Pfropfen, 3/8" RG                   |
| 16   | 522C3025  | 1    | Pakning, kobber                       | Gasket, copper                   | Dichtung, Kupfer                    |
| 17   | 033D1202  | 1    | Termostat + pakning                   | Thermostat + gasket              | Thermostat + Dichtung               |
| 18   | 560K1069  | 1    | O-ring                                | O-ring                           | Abdichtring                         |
| 19   | 560F1031  | 1    | O-ring                                | O-ring                           | Abdichtring                         |
| 20   | 500D2376  | 2    | Maskinbolt M8 x 80                    | Machine bolt M8 x 80             | Sechskantschraube M8 x 80           |
| 21   | 522F1020  | 1    | Fjederskive                           | Spring washer                    | Federscheibe                        |
| 22   | 000E5228  | 1    | Rørbøjning                            | Elbow                            | Krümmer                             |
| 23   | 008E6567  | 1    | Tilgangsvinkel                        | Inlet elbow                      | Einlasskrümmer                      |
| 24   | 000E6285  | 1    | Rør, vandpumpe - varmeveksler         | Pipe, water pump – heat exchang. | Rohr, Wasserpumpe - Süßwasserkühler |
| 25   | 530A0122  | 1    | Slange                                | Hose                             | Schlauch                            |
| 26   | 569A0025  | 1    | Spændebånd                            | Clamping ring                    | Klemmband                           |
| 27   | 000E4937  | 1    | Konsol for ladegenerator              | Bracket for alternator           | Konsole für Lademaschine            |
| 28   | 500C2416  | 2    | Sætskrue                              | Set screw                        | Setzschraube                        |
| 29   | 500D2433  | 2    | Maskinbolt M10 x 150                  | Machine bolt M10 x 150           | Sechskantschraube M10 x 150         |
| 30   | 522F1023  | 3    | Fjederskive                           | Spring washer                    | Federscheibe                        |
| 31   | 542A0213  | 1    | Kilerem                               | V-belt                           | Keilriemen                          |
| 42   | 008E6560  | 1    | Cirkulationspumpe, se side 17         | Circulation pump, see page 17    | Umlaufpumpe, siehe Seite 17         |
| 43   | 000E6252  | 1    | Tandhjul for vandpumpe                | Gearwheel for water pump         | Zahnrad für Kühlwasserpumpe         |
| 44   | 000E4935  | 1    | Forbindelsesrør for cirkulationspumpe | Connecting pipe                  | Verbindungsrohr                     |
| 45   | 000E5234  | 1    | Pakning for kølevandsrør              | Gasket                           | Dichtung                            |
| 46   | 500C2365  | 2    | Sætskrue                              | Set screw                        | Setzschraube                        |
| 47   | 522F1020  | 2    | Fjederskive                           | Spring washer                    | Federscheibe                        |
| 48   | 560F1023  | 1    | O-ring                                | O-ring                           | Abdichtring                         |
| 49   | 560K0079  | 1    | O-ring                                | O-ring                           | Abdichtring                         |
| 50   | 500D2376  | 3    | Maskinbolt M8 x 80                    | Machine bolt M8 x 80             | Sechskantschraube M8 x 80           |
| 51   | 522F1020  | 3    | Fjederskive                           | Spring washer                    | Federscheibe                        |
| 52   | 008E6065  | 1    | Rør, oliekoeler - pumpe               | Pipe, oil cooler - pump          | Rohr, Ölkühler - Pumpe              |
| 53   | 530A17452 | 1    | Slange, 5 cm                          | Hose, 5 cm                       | Schlauch, 5 cm                      |
| 54   | 569A0030  | 2    | Spændebånd, rustfri                   | Clamping ring                    | Klemmband                           |
| 55   | 569A0025  | 1    | Spændebånd, rustfri                   | Clamping ring                    | Klemmband                           |
| 56   | 552J0918  | 1    | Temperaturgiver, 100°C                | Temperature transmitter, 100°C   | Temperaturgeber, 100°C              |
| 57   | 522C3020  | 1    | Pakning, kobber                       | Gasket, copper                   | Dichtung, Kupfer                    |
| 58   | 008E7234  | 1    | Kølevandspumpe, se side 13            | Cooling water pump, see page 13  | Kühlwasserpumpe, siehe Seite 13     |



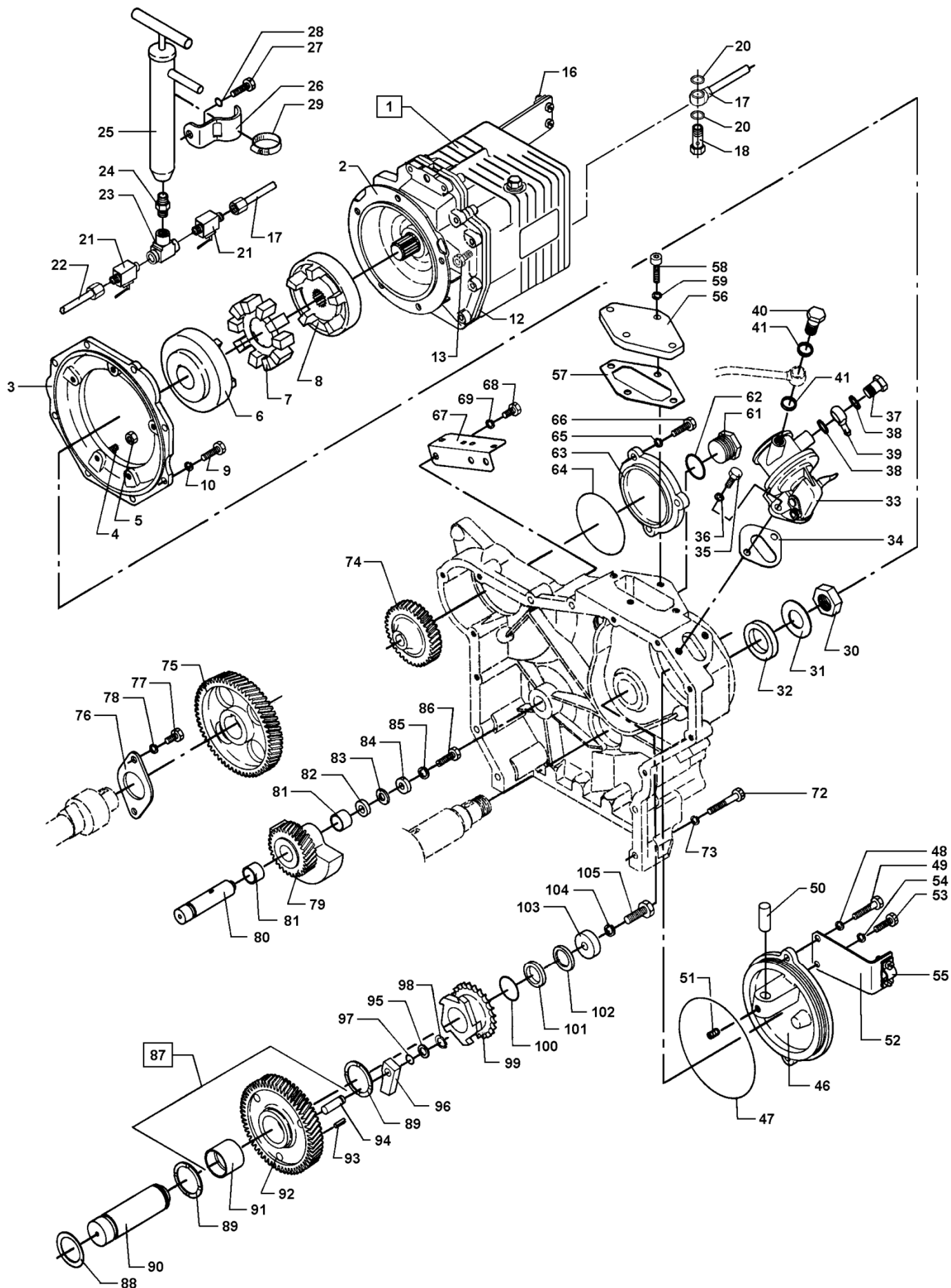
**Cirkulationspumpe**  
**Cirkulation pump**  
**Umlaufpumpe**

| Pos. | Part No. | Qty. | Beskrivelse                                               | Description                                              | Benennung                                                              |
|------|----------|------|-----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------|
| 1    | 500C2363 | 2    | Sætskrue, M8x20 DIN 933                                   | Set screw, M8x20 DIN 933                                 | Setzschraube, M8x20 DIN 933                                            |
| 2    | 522F1020 | 2    | Fjederskive                                               | Spring Washer                                            | Federscheibe                                                           |
| 3    | 000E4934 | 1    | Dæksel for cirkulationspumpe                              | Cover for circulation pump                               | Deckel für Umlaufpumpe                                                 |
| 4    | 560K1119 | 1    | *) O-ring                                                 | *) O-ring                                                | *) O-ring                                                              |
| 5    | 000E4933 | 1    | *) Rotor for cirkulationspumpe                            | *) Rotor for circulation pump                            | *) Rotor für Umlaufpumpe                                               |
| 7    | 530Q9972 | 1    | *) Vandpumpetætning                                       | *) Water pump seal                                       | *) Wasserpumpendichtung                                                |
| 8    | 000E5283 | 1    | *) Aksel for cirkulationspumpe                            | *) Shaft for circulation pump                            | *) Welle für Umlaufpumpe                                               |
| 9    | 521B0130 | 1    | Feder                                                     | Key                                                      | Federkeil                                                              |
| 10   | 000E4726 | 1    | Pakning for vinkel-slangestuds                            | Gasket for elbow                                         | Dichtung für Krümmer                                                   |
| 11   | 000E6168 | 1    | Vinkel-slangestuds                                        | Elbow                                                    | Krümmer                                                                |
| 12   | 522F1020 | 2    | Fjederskive                                               | Spring Washer                                            | Federscheibe                                                           |
| 13   | 500D2368 | 2    | Maskinskrue, M8x40 DIN 931                                | Machine screw, M8x40 DIN 931                             | Sechskantschraube, M8x40 DIN 931                                       |
| 14   | 009R2012 | 1    | Prop 3/8" RG                                              | Plug 3/8" BSP                                            | Pfropfen 3/8" RG                                                       |
| 15   | 522C3025 | 1    | Pakning, kobber                                           | Gasket, copper                                           | Dichtung, kupfer                                                       |
| 16   | 000E5282 | 1    | Hus for cirkulationspumpe                                 | Housing for circulation pump                             | Gehäuse für Umlaufpumpe                                                |
| 17   | 561B0201 | 1    | *) Olietætningsring                                       | *) Oil seal ring                                         | *) Öldichtungsring                                                     |
| 18   | 545A3129 | 2    | Kugleleje                                                 | Ball bearing                                             | Kugellager                                                             |
| 19   | 000E5284 | 1    | Afstandsrør                                               | Distance pipe                                            | Distanzrohr                                                            |
| 21   | 522A9022 | 1    | Seeger støttering                                         | Seeger support washer                                    | Seeger Stützring                                                       |
| 22   | 522A0042 | 1    | Seeger-ring I42x1,75                                      | Seeger-ring I42x1,75                                     | Seeger-ring I42x1,75                                                   |
| 23   | 000E6252 | 1    | Tandhjul for vandpumpe                                    | Gear wheel for water pump                                | Zahnrad für Wasserpumpe                                                |
|      | 033D1801 | 1    | Reparationssæt<br>*) Dele, som indgår i<br>reparationssæt | Repair kit<br>*) Parts, which form part<br>of repair kit | Reparatursatz<br>*) Teile, die im Reparatursatz<br>eingeschlossen sind |



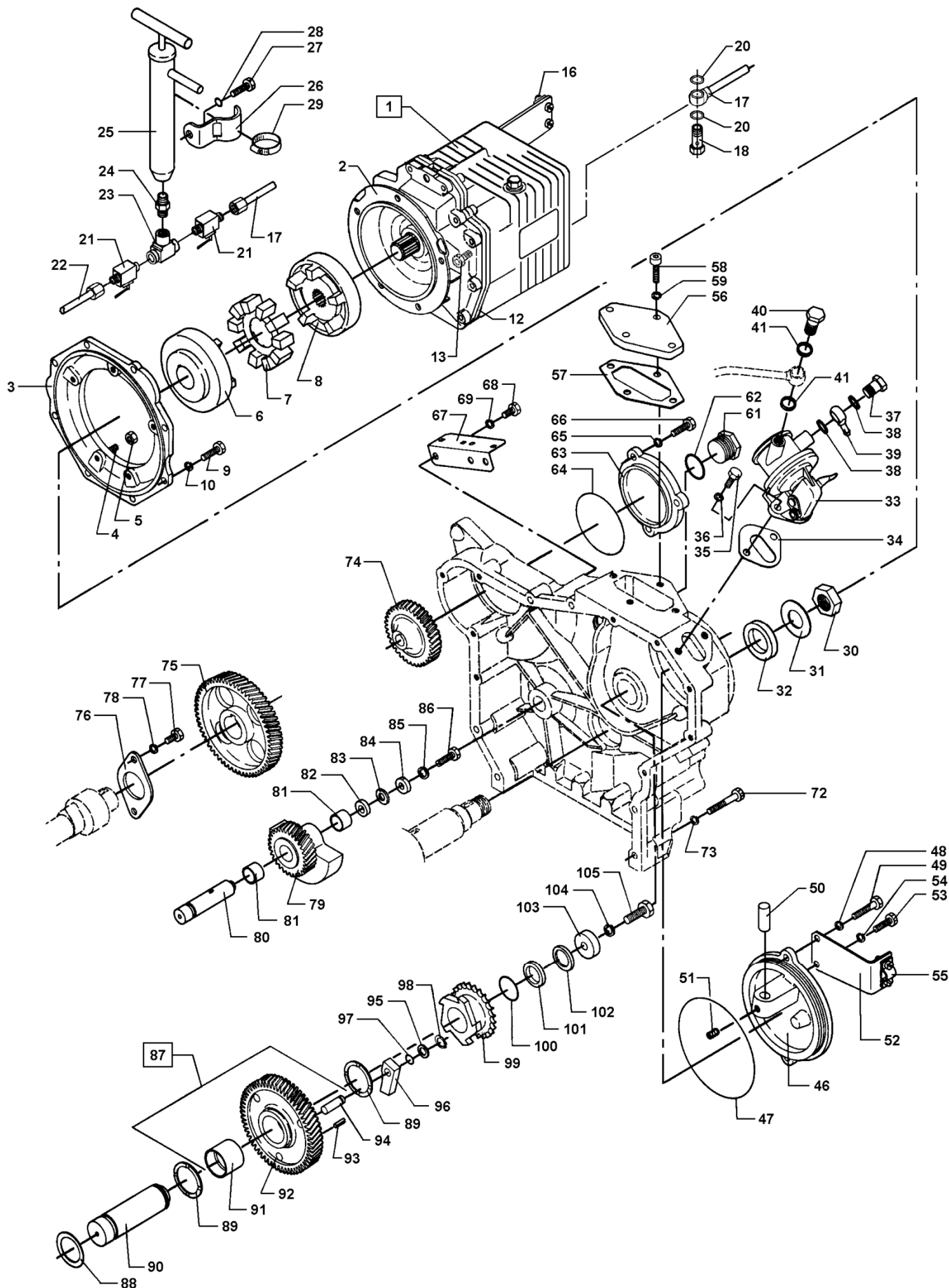
**Svinghjul og forreste roterende vægt**  
**Flywheel and front end rotating weight**  
**Schwungrad und vordere Rotationsgewicht**

| Pos. | Part No. | Qty. | Beskrivelse                     | Description                     | Benennung                        |
|------|----------|------|---------------------------------|---------------------------------|----------------------------------|
| 1    | 008E7312 | 1    | Svinghjul med tandkrans         | Flywheel with gearrim           | Schwungrad mit Zahnkranz         |
| 2    | 000E4931 | 1    | Kileremskive                    | V-belt pulley                   | Keilriemenscheibe                |
| 3    | 500D2368 | 3    | Maskinskrue, M8x40 DIN 931      | Machine screw, M8x40 DIN 931    | Sechskantschraube, M8x40 DIN 931 |
| 4    | 522F1020 | 3    | Fjederskive, 8mm DIN 7980       | Spring washer, 8mm DIN 7980     | Federscheibe, 8mm DIN 7980       |
| 5    | 501A3217 | 6    | Unbrakoskrue, M12x1,5x50        | Unbraco screw, M12x1.5x50       | Unbracoschraube, M12x1,5x50      |
| 6    | 000E4557 | 6    | Skive                           | Washer                          | Scheibe                          |
| 7    | 542A0609 | 1    | Kilerem                         | V-belt                          | Keilriemen                       |
| 8    | 612H0520 | 1    | Ladegenerator, 14V              | Charging alternator, 14V        | Lademaschine, 14V                |
| 9    | 500D2367 | 1    | Maskinskrue, M8x35 DIN 931      | Machine screw, M8x35 DIN 931    | Sechskantschraube, M8x35 DIN 931 |
| 10   | 510A1208 | 1    | Møtrik M8 DIN 934               | Nut M8 DIN 934                  | Mutter M8 DIN 934                |
| 11   | 522C1223 | 1    | Skive                           | Washer                          | Scheibe                          |
| 12   | 501A2425 | 1    | Unbrakoskrue, M10x75 DIN 912    | Unbraco screw, M10x75 DIN 912   | Unbracoschraube, M10x75 DIN 912  |
| 13   | 511A2209 | 1    | Møtrik M10, selvflåsende        | Nyloc nut M10                   | Mutter M10, selbstverriegelnd    |
| 15   | 000E7579 | 1    | Konsol for generator            | Brachet for charging alternator | Konsole für Lademaschine         |
| 16   | 000E7580 | 4    | Afstandsstykke                  | Distance piece                  | Zwischenstück                    |
| 17   | 500D2371 | 3    | Maskinskrue, M8x55 DIN 931      | Machine screw, M8x55 DIN 931    | Sechskantschraube, M8x55 DIN 931 |
| 18   | 000E4817 | 1    | Pakning for forreste endedæksel | Gasket for front end cover      | Dichtung für vordere Enddeckel   |
| 20   | 500C2363 | 9    | Sætskrue, M8x20 DIN 933         | Set screw, M8x20 DIN 933        | Setzschraube, M8x20 DIN 933      |
| 21   | 561B0706 | 1    | Olietætningsring, ø70/95x12     | Oil seal ring, ø70/95x12        | Öldichtungsring, ø70/95x12       |
| 22   | 000E4794 | 1    | Aksel for roterende vægt        | Shaft for rotating weight       | Welle für Rotationsgewicht       |
| 23   | 008E4800 | 1    | Roterende vægt, komplet         | Rotating weight, complete       | Rotationsgewicht, komplett       |
| 24   | 000E3225 | 4    | Trykring (nylon)                | Thrust collar (nylon)           | Druckring (nylon)                |
| 25   | 000E3226 | 4    | Mellemskive                     | Intermediate disc               | Zwischenscheibe                  |
| 26   | 000E4798 | 1    | Skive                           | Washer                          | Scheibe                          |
| 27   | 522F1020 | 1    | Fjederskive                     | Spring washer                   | Federscheibe                     |
| 28   | 500C2363 | 1    | Sætskrue, M8x20 DIN 933         | Set screw, M8x20 DIN 933        | Setzschraube, M8x20 DIN 933      |
| 29   | 000E2364 | 1    | Tandkrans                       | Gearrim                         | Zahnkranz                        |



**Bagerste roterende vægt og brændstofferpumpe**  
**Rear end rotating weight and fuel lift pump**  
**Hintere Rotationsgewicht und Förderpumpe**

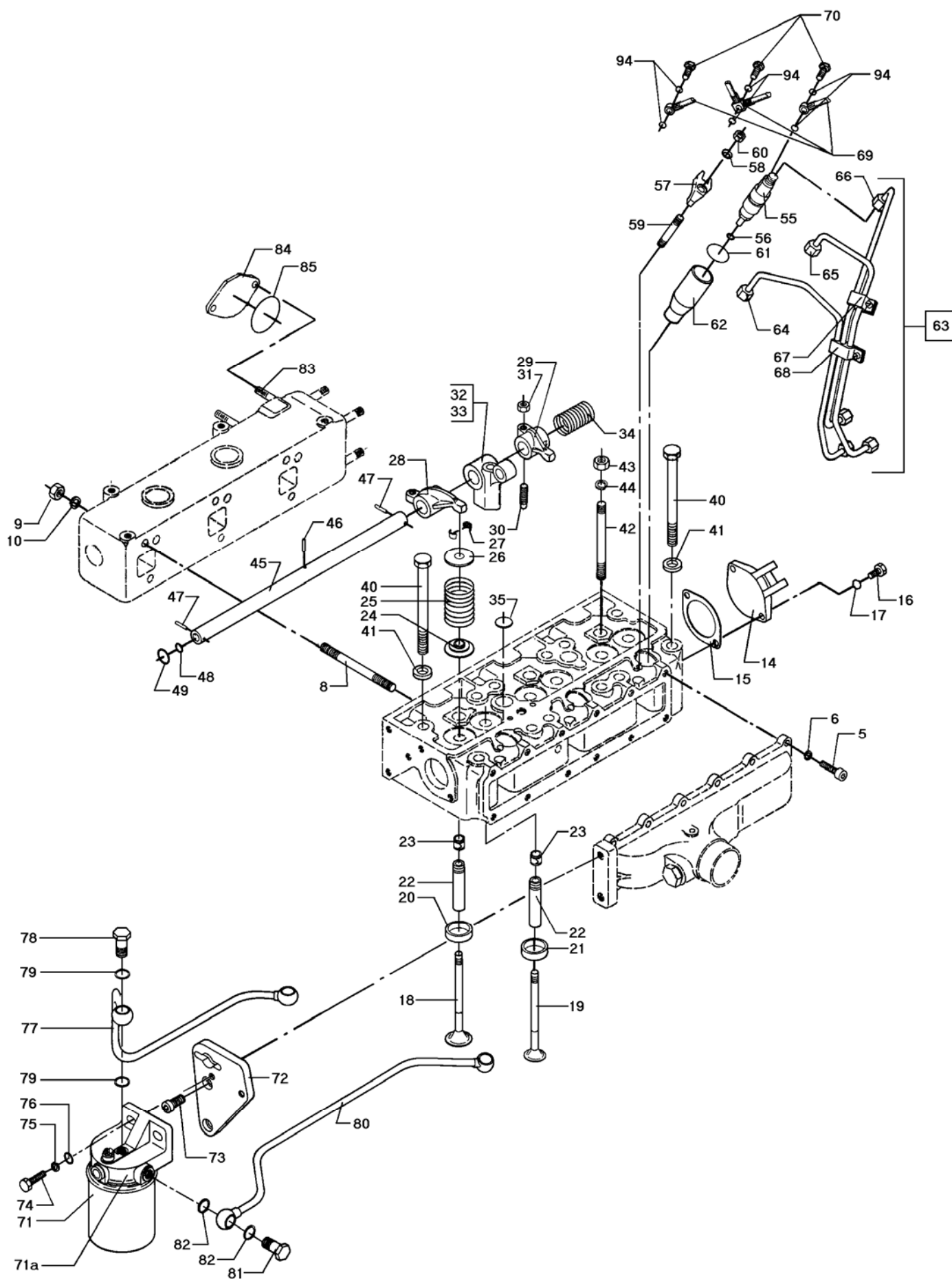
| Pos. | Part No. | Qty. | Beskrivelse                  | Description                   | Benennung                              |
|------|----------|------|------------------------------|-------------------------------|----------------------------------------|
| 1    | 620A5000 | 1    | Revers-reduktionsgear 3:1    | Reverse-reduction gear 3:1    | Bootswende- Untersetzungsgetriebe 3:1  |
| 2    | 000E9790 | 1    | Mellemskærm                  | Intermediate cover            | Zwischendeckel                         |
| 3    | 000E4941 | 1    | Mellemstykke                 | Intermediate piece            | Zwischenstück                          |
| 4    | 503N2361 | 5    | Tapskrue                     | Stud                          | Stiftschraube                          |
| 5    | 510A1208 | 5    | Møtrik                       | Nut                           | Mutter                                 |
| 6    | 000E6039 | 1    | Elastisk kobling m/konus     | Flexible coupling with cone   | Elastische Kupplung mit Konus          |
| 7    | 000E6036 | 1    | Koblingselement              | Clutch element                | Kupplungselement                       |
| 8    | 000E7531 | 1    | Elastisk kobling m/mangenot  | Flexible coupling with spline | Elastische Kupplung mit Vielverzahnung |
| 9    | 500C2363 | 8    | Sætskrue                     | Set screw                     | Setzschraube                           |
| 10   | 522F1020 | 8    | Fjederskive                  | Spring washer                 | Federscheibe                           |
| 12   | 501A2365 | 2    | Cylinderskrue                | Unbraco screw                 | Unbraco Schraube                       |
| 13   | 501F2363 | 4    | Cylinderskrue                | Unbraco screw                 | Unbraco Schraube                       |
| 16   | 544A0320 | 1    | Sadelfæste                   | Clamp                         | Sattelgriff                            |
| 17   | 000E9791 | 1    | Rør, gear - lænsepumpe       | Pipe, gear – bilge pump       | Rohr, Getriebe - Lenzpumpe             |
| 18   | 531Z0055 | 1    | Hulskrue                     | Banjo bolt                    | Hohlschraube                           |
| 20   | 522C3023 | 2    | Pakning, kobber              | Gasket, copper                | Dichtung, Kupfer                       |
| 21   | 530B0008 | 2    | Toldhane                     | Cock                          | Hahn                                   |
| 22   | 000E6018 | 1    | Rør, bundkar - lænsepumpe    | Pipe, oil sump – bilge pump   | Rohr, Ölwanne - Lenzpumpe              |
| 23   | 530B0009 | 1    | T-stykke                     | T-piece                       | T-Stück                                |
| 24   | 532R1010 | 1    | Brystnippel                  | Hexagon nipple                | Nippel                                 |
| 25   | 529V9960 | 1    | Håndpumpe med nippel         | Hand pump with nipple         | Handpumpe mit Nippel                   |
| 26   | 000E6355 | 1    | Beslag for olielænsepumpe    | Fittings for oil bilge pump   | Beschlag für Öllenzpumpe               |
| 27   | 500C2361 | 1    | Sætskrue                     | Set screw                     | Setzschraube                           |
| 28   | 522F1020 | 1    | Fjederskive                  | Spring washer                 | Federscheibe                           |
| 29   | 569A0023 | 1    | Spændebånd                   | Clamping ring                 | Klemmband                              |
| 30   | 000E6817 | 1    | Møtrik                       | Nut                           | Mutter                                 |
| 31   | 522C0370 | 1    | Underlagsskive               | Washer                        | Unterlagsscheibe                       |
| 32   | 561B0356 | 1    | Olietætningsring             | Oil seal ring                 | Dichtring                              |
| 33   | 610C0120 | 1    | Brændstofferpumpe            | Fuel lift pump                | Förderpumpe                            |
| 34   | 000E4784 | 1    | Pakning for forpumpe 0,4 mm  | Gasket for lift pump 0.4 mm   | Dichtung f. Förderpumpe 0.4 mm         |
| 35   | 500C2363 | 2    | Sætskrue                     | Set screw                     | Setzschraube                           |
| 36   | 522F1020 | 2    | Fjederskive                  | Spring washer                 | Federscheibe                           |
| 37   | 531Z0053 | 1    | Hulskrue                     | Banjo bolt                    | Hohlschraube                           |
| 38   | 522C3016 | 2    | Pakning, kobber              | Gasket, copper                | Dichtung, Kupfer                       |
| 39   | 000E6460 | 1    | Banjoring                    | Banjo                         | Ringstück                              |
| 40   | 531Z0053 | 1    | Hulskrue                     | Banjo bolt                    | Hohlschraube                           |
| 41   | 522C3016 | 2    | Pakning, kobber              | Gasket, copper                | Dichtung, Kupfer                       |
| 46   | 008E8859 | 1    | Dæksel med udluftningsventil | Cover with airing valve       | Deckel mit Lüftungsventil              |
| 47   | 560K0124 | 1    | O-ring                       | O-ring                        | Abdichtring                            |
| 48   | 522F1020 | 2    | Fjederskive                  | Spring washer                 | Federscheibe                           |
| 49   | 500C2363 | 2    | Sætskrue                     | Set screw                     | Setzschraube                           |
| 50   | 000E4844 | 1    | Knastfølger                  | Guide for push rod            | Steuer für Stosstange                  |
| 51   | 501B2309 | 1    | Pinolskrue med tap           | Pointed screw                 | Reitstockschrabe                       |
| 52   | 000E5251 | 1    | Konsol f. betjening af motor | Bracket f. control of engine  | Konsole f. Bedienung vom Motor         |
| 53   | 500C2359 | 1    | Sætskrue                     | Set screw                     | Setzschraube                           |
| 54   | 522F1020 | 1    | Fjederskive                  | Spring washer                 | Federscheibe                           |
| 55   | 544A0320 | 1    | Sadelfæste                   | Clamp                         | Sattelgriff                            |
| 56   | 000E6736 | 1    | Dæksel                       | Cover                         | Deckel                                 |
| 57   | 000E5099 | 1    | Pakning for kædekaske        | Gasket for chain case         | Dichtung                               |
| 58   | 501A2365 | 4    | Cylinderskrue                | Unbraco screw                 | Unbraco Schraube                       |
| 59   | 522F1020 | 4    | Fjederskive                  | Spring washer                 | Federscheibe                           |





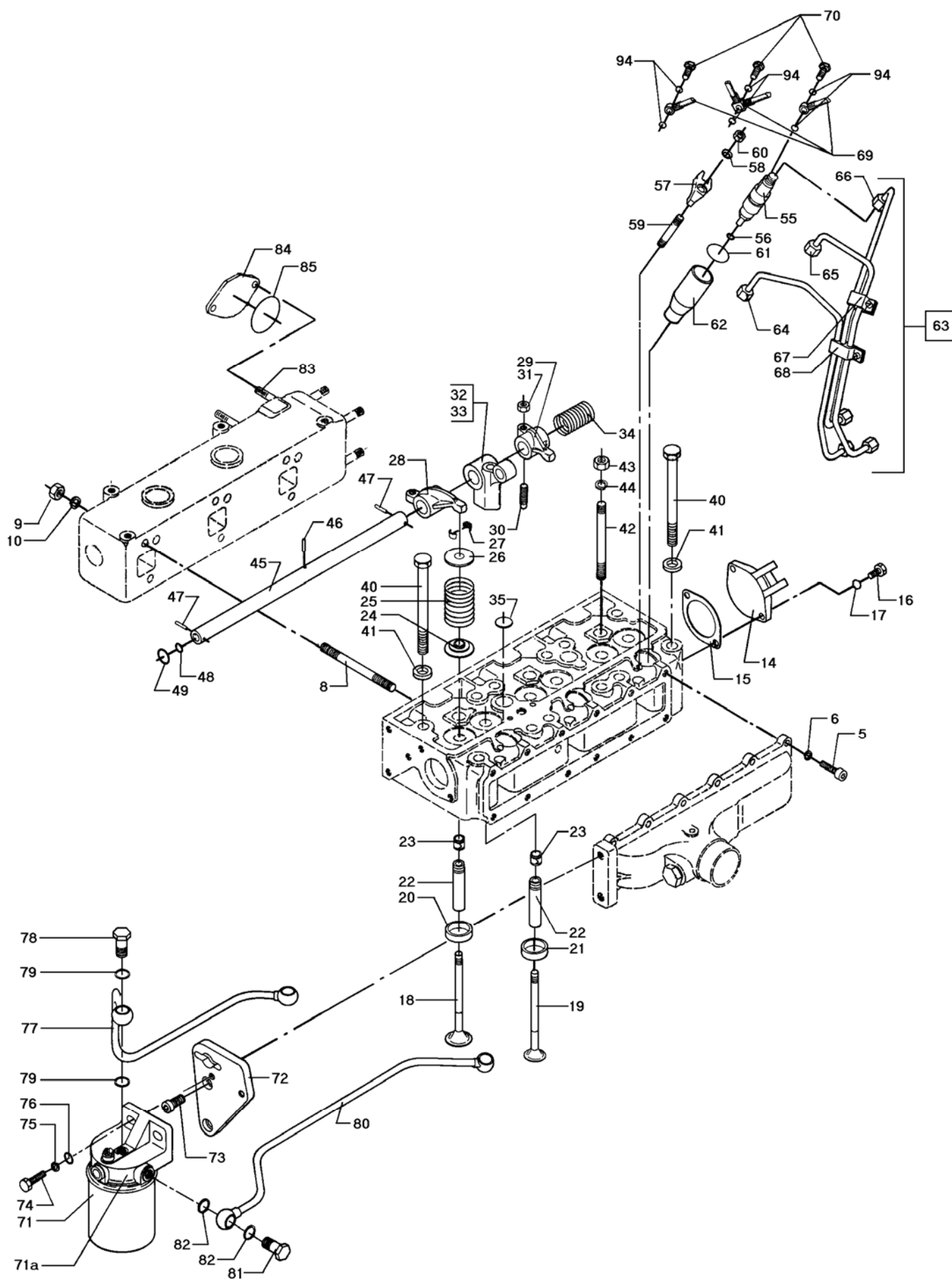
**Bagerste roterende vægt og brændstofforpumpe****Rear end rotating weight and fuel lift pump****Hintere Rotationsgewicht und Förderpumpe**

| Pos. | Part No. | Qty. | Beskrivelse                 | Description                     | Benennung                      |
|------|----------|------|-----------------------------|---------------------------------|--------------------------------|
| 61   | 009R2015 | 1    | Prop 3/4" RG                | Plug 3/4" BSP                   | Pfropfen 3/4" RG               |
| 62   | 522C3044 | 1    | Pakning, kobber             | Gasket, copper                  | Dichtung, Kupfer               |
| 63   | 000E4942 | 1    | Dæksel                      | Cover                           | Deckel                         |
| 64   | 560K0079 | 1    | O-ring                      | O-ring                          | Abdichtring                    |
| 65   | 522F1020 | 3    | Fjederskive                 | Spring washer                   | Federscheibe                   |
| 66   | 500C2363 | 3    | Sætskrue                    | Set screw                       | Setzschraube                   |
| 67   | 000E5174 | 1    | Konsol for multistik        | Bracket for multiple plug       | Konsole für Vielfachstecker    |
| 68   | 500C2361 | 2    | Sætskrue                    | Set screw                       | Setzschraube                   |
| 69   | 522F1020 | 2    | Fjederskive                 | Spring washer                   | Federscheibe                   |
| 72   | 500D2368 | 9    | Maskinbolt                  | Machine bolt                    | Sechskantschraube              |
| * )  | 500D2369 | 1    | Maskinbolt                  | Machine bolt                    | Sechskantschraube              |
| 73   | 522F1020 | 9    | Fjederskive                 | Spring washer                   | Federscheibe                   |
| 74   | 000E6252 | 1    | Tandhjul for vandpumpe      | Gearwheel f. cooling water pump | Zahnrad f. Kühlwasserpumpe     |
| 75   | 000E4839 | 1    | Tandhjul for styreaksel     | Gearwheel f. camshaft           | Zahnrad f. Nockenwelle         |
| 76   | 000E4922 | 1    | Aksialleje                  | Axial bearing                   | Axiales Lager                  |
| 77   | 500C2361 | 2    | Sætskrue                    | Set screw                       | Setzschraube                   |
| 78   | 522F1020 | 2    | Fjederskive                 | Spring washer                   | Federscheibe                   |
| 79   | 008E4795 | 1    | Roterende vægt kpl. bageste | Rotating weight compl rear      | Rotationsgewicht kompl. hinter |
| 80   | 000E4794 | 1    | Aksel f. roterende vægt     | Shaft for rotating weight       | Welle f. Rotationsgewicht      |
| 81   | 000E5236 | 4    | Bøsning                     | Bush                            | Buchse                         |
| 82   | 000E3225 | 1    | Trykring                    | Thrust collar for shaft         | Druckring                      |
| 83   | 000E3226 | 1    | Mellemskive                 | Intermediate washer             | Zwischenscheibe                |
| 84   | 000E4798 | 1    | Skive                       | Washer                          | Scheibe                        |
| 85   | 522F1020 | 1    | Fjederskive                 | Spring washer                   | Federscheibe                   |
| 86   | 500C2363 | 1    | Sætskrue                    | Set screw                       | Setzschraube                   |
| 87   | 033D0202 | 1    | Mellemhjul komplet          | Intermediate wheel complete     | Zwischenrad komplett           |
| 88   | 522A9245 | 1    | Passkive                    | Washer                          | Passscheibe                    |
| 89   | 000E5050 | 2    | Trykskive                   | Pressure washer                 | Druckscheibe                   |
| 90   | 000E4802 | 1    | Aksel for mellemhjul        | Shaft for intermediate wheel    | Welle für Zwischenrad          |
| 91   | 000E4804 | 1    | Bøsning for mellemhjul      | Bush for intermediate wheel     | Buchse für Zwischenrad         |
| 92   | 000E4778 | 1    | Mellemhjul                  | Intermediate wheel              | Zwischenrad                    |
| 93   | 520H0409 | 3    | Spændstift                  | Retainiing pin                  | Federstift                     |
| 94   | 000E4805 | 3    | Tap                         | Pin                             | Zapfen                         |
| 95   | 522A9706 | 3    | Springring                  | Spring ring                     | Klemmring                      |
| 96   | 000E4806 | 3    | Pal                         | Pawl                            | Sperrhaken                     |
| 97   | 522A9010 | 3    | Støtteskive                 | Support washer                  | Stützscheibe                   |
| 98   | 522A1010 | 3    | Seegerring                  | Circlip                         | Seegerring                     |
| 99   | 000E4807 | 1    | Palhjul                     | Pawl wheel                      | Sperrad                        |
| 100  | 560F1022 | 1    | O-ring                      | O-ring                          | O-ring                         |
| 101  | 000E4808 | 1    | Trykring for mellemaksel    | Thrust collar                   | Druckring                      |
| 102  | 000E4809 | 1    | Mellemskive for mellemaksel | Intermediate washer             | Zwischenscheibe                |
| 103  | 000E4810 | 1    | Skive for mellemhjulsaksel  | Washer for intermediate shaft   | Scheibe für Zwischenwelle      |
| 104  | 522F1023 | 1    | Fjederskive                 | Spring washer                   | Federscheibe                   |
| 105  | 500C2415 | 1    | Sætskrue                    | Set screw                       | Setzschraube                   |



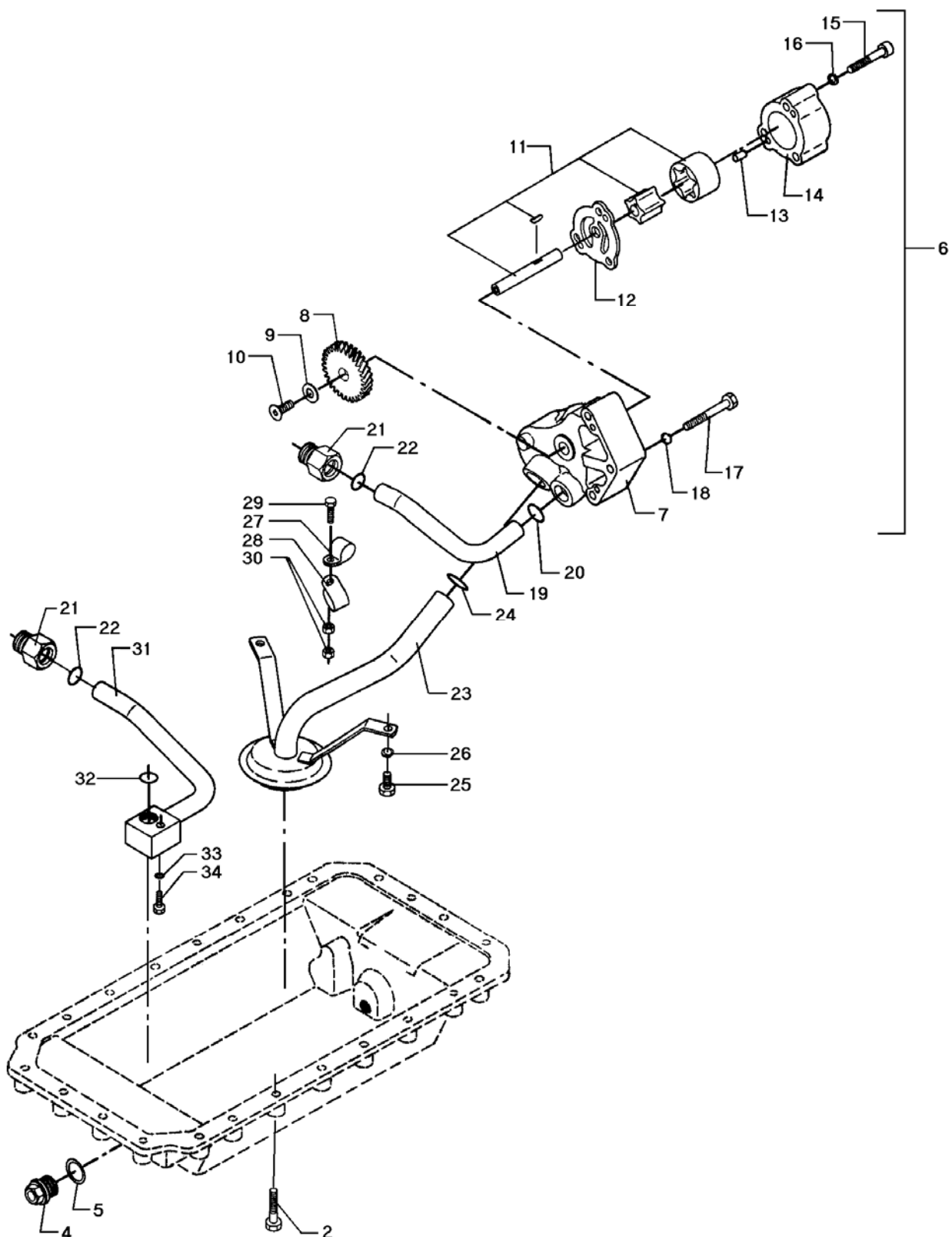
**Brændstofindsprøjtning og ventiler**  
**Fuel injection and valves**  
**Brennstoffeinspritzung und Ventile**

| Pos. | Part No. | Qty. | Beskrivelse                   | Description                   | Benennung                         |
|------|----------|------|-------------------------------|-------------------------------|-----------------------------------|
| 5    | 501A2363 | 12   | Unbrakoskrue, M8x20           | Unbraco screw, M8x20          | Unbraco Schraube, M8x20           |
| 6    | 522E0521 | 12   | Låseskive                     | Locking washer                | Arretierungsscheibe               |
| 8    | 503N2437 | 6    | Tapskrue, M10x95              | Stud, M10x95                  | Stiftschraube, M10x95             |
| 9    | 510A1209 | 6    | Møtrik, M10                   | Nut, M10                      | Mutter, M10                       |
| 10   | 522F1023 | 6    | Fjederskive                   | Spring washer                 | Federscheibe                      |
| 14   | 023D0402 | *)   | Løftebeslag                   | Lifting fittings              | Hebelbeschlag                     |
| 15   | 000E5047 | 2    | Pakning                       | Gasket                        | Dichtung                          |
| 16   | 500C2363 | 4    | Sætskrue, M8x20               | Set screw, M8x20              | Setzschraube, M8x20               |
| 17   | 522F1020 | 4    | Fjederskive                   | Spring washer                 | Federscheibe                      |
| 18   | 000E4887 | 3    | Indsugningventil              | Inlet valve                   | Einlassventil                     |
| 19   | 000E4888 | 3    | Udstødningsventil             | Exhaust valve                 | Auslassventil                     |
| 20   | 000E4876 | 3    | Ventilsædering, indsugning    | Valve seat ring, inlet        | Ventilsitzring, Einlass           |
| 21   | 000E4877 | 3    | Ventilsædering, udstødning    | Valve seat ring, exhaust      | Ventilsitzring, Auslass           |
| 22   | 000E4878 | 6    | Ventilstyr                    | Valve guide                   | Ventilführung                     |
| 23   | 562J0000 | 6    | Ventiltætning                 | Seal for valve                | Ventildichtung                    |
| 24   | 000E4890 | 6    | Tallerken f. ventilfjeder     | Disc for valve spring         | Teller f. Ventillfeder            |
| 25   | 000E4891 | 6    | Ventilfjeder                  | Valve spring                  | Ventilfeder                       |
| 26   | 000E5014 | 6    | Fjederstyr                    | Spring guide                  | Federteller                       |
| 27   | 522V0009 | 12   | Ventillås                     | Conical lock for valve        | Ventilschloss                     |
| 28   | 008E7355 | 3    | Vippearm, inds. med foring    | Rocker arm, inlet             | Kipphebel, Einlass                |
| 29   | 008E7356 | 3    | Vippearm, udst. med foring    | Rocker arm, exhaust           | Kipphebel, Auslass                |
| 30   | 000E0700 | 6    | Stilleskrue                   | Adjusting screw               | Stellschraube                     |
| 31   | 000E1089 | 6    | Kontramøtrik                  | Nut                           | Gegenmutter                       |
| 32   | 000E4897 | 1    | Søjle for vippearm            | Stanchion for rocker arm      | Säule für Kipphebel               |
| 33   | 000E4882 | 2    | Søjle for vippearm            | Stanchion for rocker arm      | Säule für Kipphebel               |
| 34   | 000E4899 | 2    | Afstandsfjeder                | Distance spring               | Distanzfeder                      |
| 35   | 000E0477 | 2    | Sprængplade                   | Expansion disc                | Sprengplatte                      |
| 40   | 500N2480 | 12   | Maskinbolt, M12x120           | Machine bolt, M12x120         | Sechskantschraube, M12x120        |
| 41   | 000E4557 | 12   | Skive                         | Washer                        | Scheibe                           |
| 42   | 503N2436 | 3    | Tapskrue, M10x85              | Stud, M10x85                  | Stiftschraube, M10x85             |
| 43   | 510A1209 | 3    | Møtrik, M10                   | Nut, M10                      | Mutter, M10                       |
| 44   | 522F1023 | 3    | Fjederskive                   | Spring washer                 | Federscheibe                      |
| 45   | 033D0404 | 1    | Vippearmsaksel                | Rocker arm shaft              | Kipphebelwelle                    |
| 46   | 520G1311 | 1    | Cylinderstift                 | Cylindric pin                 | Zylinderstift                     |
| 47   | 520H0313 | 2    | Spændstift                    | Retaining pin                 | Federstift                        |
| 48   | 539A0103 | 2    | Slutdæksel                    | Cover lid                     | Verschlussdeckel                  |
| 49   | 522F6500 | 2    | Fjederring                    | Circlip                       | Sicherungsring                    |
| 55   | 610B9250 | 3    | Indsprøjtningdyse, komplet    | Nozzle, complete              | Einspritzdüse, komplett           |
| 56   | 522C3080 | 3    | Pakning, kobber               | Gasket, copper                | Dichtung, Kupfer                  |
| 57   | 000E4904 | 3    | Spændeklo for dyseholder      | Clamp dog                     | Spannkloben                       |
| 58   | 522C8008 | 3    | Kugleskive                    | Ball washer                   | Kugelscheibe                      |
| 59   | 503N2368 | 3    | Tapskrue, M8x40               | Stud, M8x40                   | Stiftschraube, M8x40              |
|      |          |      | *) Sæt á 2 stk. med pakninger | *) Set of 2 pcs. with gaskets | *) Satz von 2 Stück mit Packungen |



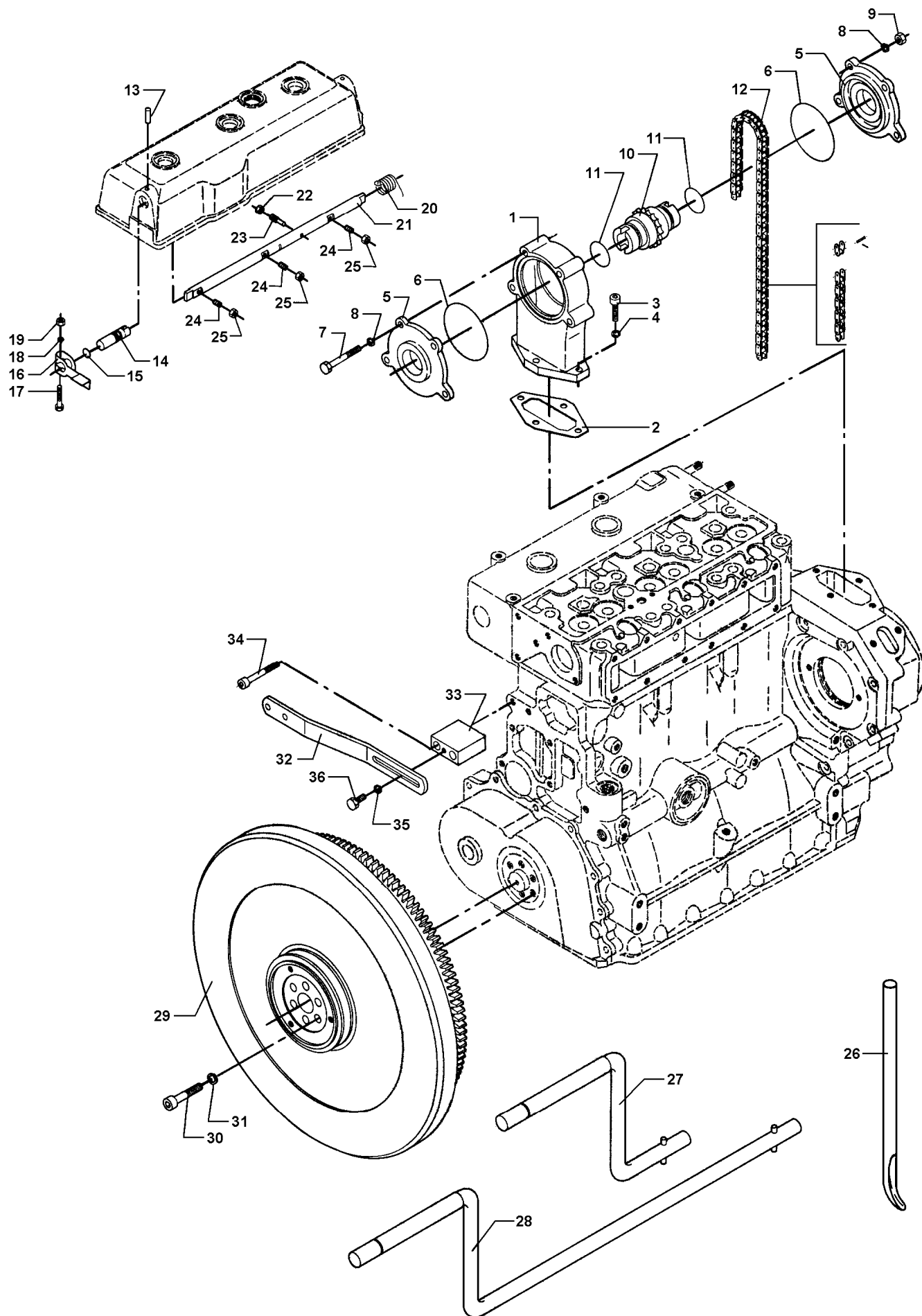
**Brændstofindsprøjtning og ventiler**  
**Fuel injection and valves**  
**Brennstoffeinspritzung und Ventile**

| Pos. | Part No. | Qty. | Beskrivelse                        | Description                       | Benennung                            |
|------|----------|------|------------------------------------|-----------------------------------|--------------------------------------|
| 60   | 510A1208 | 3    | Møtrik, M8                         | Nut, M8                           | Mutter, M8                           |
| 61   | 560F0021 | 3    | O-ring                             | O-ring                            | Abdichtring                          |
| 62   | 000E4880 | 3    | Dyseholderindsats                  | Nozzle holder insert              | Düsenhalterereinsatz                 |
| 63   | 008E5209 | 1    | Brændstoftrykør, rørsæt kpl.       | Fuel pressure pipe, set cpl.      | Brennstoffdruckrohr, Satz Kpl.       |
| 64   | *)       | 1    | Brændstoftrykør cyl 1              | Fuel pressure pipe cyl 1          | Brennstoffdruckrohr Zyl. 1           |
| 65   | *)       | 1    | Brændstoftrykør cyl 2              | Fuel pressure pipe cyl 2          | Brennstoffdruckrohr Zyl. 2           |
| 66   | *)       | 1    | Brændstoftrykør cyl 3              | Fuel pressure pipe cyl 3          | Brennstoffdruckrohr Zyl. 3           |
| 67   | *)       | 1    | Rørholder, 2 rør                   | Pipe holder, 2 pipes              | Rohrhalter, 2 Rohre                  |
| 68   | *)       | 1    | Rørholder, 3 rør                   | Pipe holder, 3 pipes              | Rohrhalter, 3 Rohre                  |
| 69   | 008E8558 | 1    | Lækolieforbindelse                 | Leak oil connecton                | Leckölverbindung                     |
| 70   | 000E7358 | 3    | Hulskrue                           | Banjo bolt                        | Hohlschraube                         |
| 71   | 610D0201 | 1    | Brændstoffilter-dåse               | Cartridge                         | Kraftstoff-Filter                    |
| 71a  | 610D0200 | 1    | Brændstoffilter, komplet           | Fuel filter, complete             | Kraftstoff-Filter, komplett          |
| 72   | 000E4979 | 1    | Konsol for brændstoffilter         | Bracket                           | Konsole                              |
| 73   | 501F2413 | 2    | Cylinderskrue, M10x20              | Unbraco screw, M10x20             | Zylinderschraube, M10x20             |
| 74   | 500C2415 | 2    | Sætskrue, M10x25                   | Set screw, M10x25                 | Setzschraube, M10x25                 |
| 75   | 522F1023 | 2    | Fjerskive                          | Spring washer                     | Federscheibe                         |
| 76   | 522C1225 | 2    | Underlagsskive                     | Washer                            | Unterlagsscheibe                     |
| 77   | 008E5207 | 1    | Brændstofør                        | Fuel pipe                         | Brennstoffrohr                       |
| 78   | 531Z0054 | 1    | Hulskrue                           | Banjo bolt                        | Hohlschraube                         |
| 79   | 522C3020 | 2    | Pakning, kobber                    | Gasket, copper                    | Dichtung, Kupfer                     |
| 80   | 008E5205 | 1    | Brændstofør                        | Fuel pipe                         | Brennstoffrohr                       |
| 81   | 531Z0054 | 1    | Hulskrue                           | Banjo bolt                        | Hohlschraube                         |
| 82   | 522C3020 | 2    | Pakning, kobber                    | Gasket, copper                    | Dichtung, Kupfer                     |
| 83   | 503N2371 | 2    | Tapskrue                           | Stud                              | Stiftschraube                        |
| 84   | 000E4943 | 1    | Termostathus                       | Thermostat housing                | Thermostatengehäuse                  |
| 85   | 560F1031 | 1    | O-ring                             | O-ring                            | Abdichtring                          |
| 86   | 008E6587 | 1    | Termostat, direkte køling          | Thermostat, direct cooling        | Thermostat, direkt Kühlung           |
| 87   | 000E5235 | 1    | Pakning for termostat              | Gasket for Thermostat             | Abdichtring für Thermostat           |
| 88   | 000E4944 | 1    | Dæksel for termostathus            | Cover for thermostat housing      | Deckel für Thermostatengehäuse       |
| 88a  | 504A0404 | 1    | Prop 1/8" RG                       | Plug 1/8" BSP                     | Pfropfen 1/8" RG                     |
| 89   | 510A1208 | 2    | Møtrik                             | Nut                               | Mutter                               |
| 90   | 530A0122 | 1    | Slange, L=6,5 cm                   | Hose, L=6.5 cm                    | Schlauch, L=6,5 cm                   |
| 91   | 569A0025 | 2    | Spændebånd                         | Clamping ring                     | Klemmband                            |
| 92   | 552J0919 | 1    | Temperaturgiver                    | Temperature transmitter           | Temperaturgeber                      |
| 93   | 552C3020 | 1    | Pakning, kobber                    | Gasket, copper                    | Dichtung, Kupfer                     |
| 94   | 522C3005 | 6    | Pakning                            | Gasket                            | Dichtung                             |
|      |          |      | *) Kan kun leveres som komplet sæt | *) Only available as complete set | *) Nur als Kompletter Satz lieferbar |



**Smøreoliepumpe med rør**  
**Lubrication pump with pipes**  
**Schmierölpumpe mit Rohren**

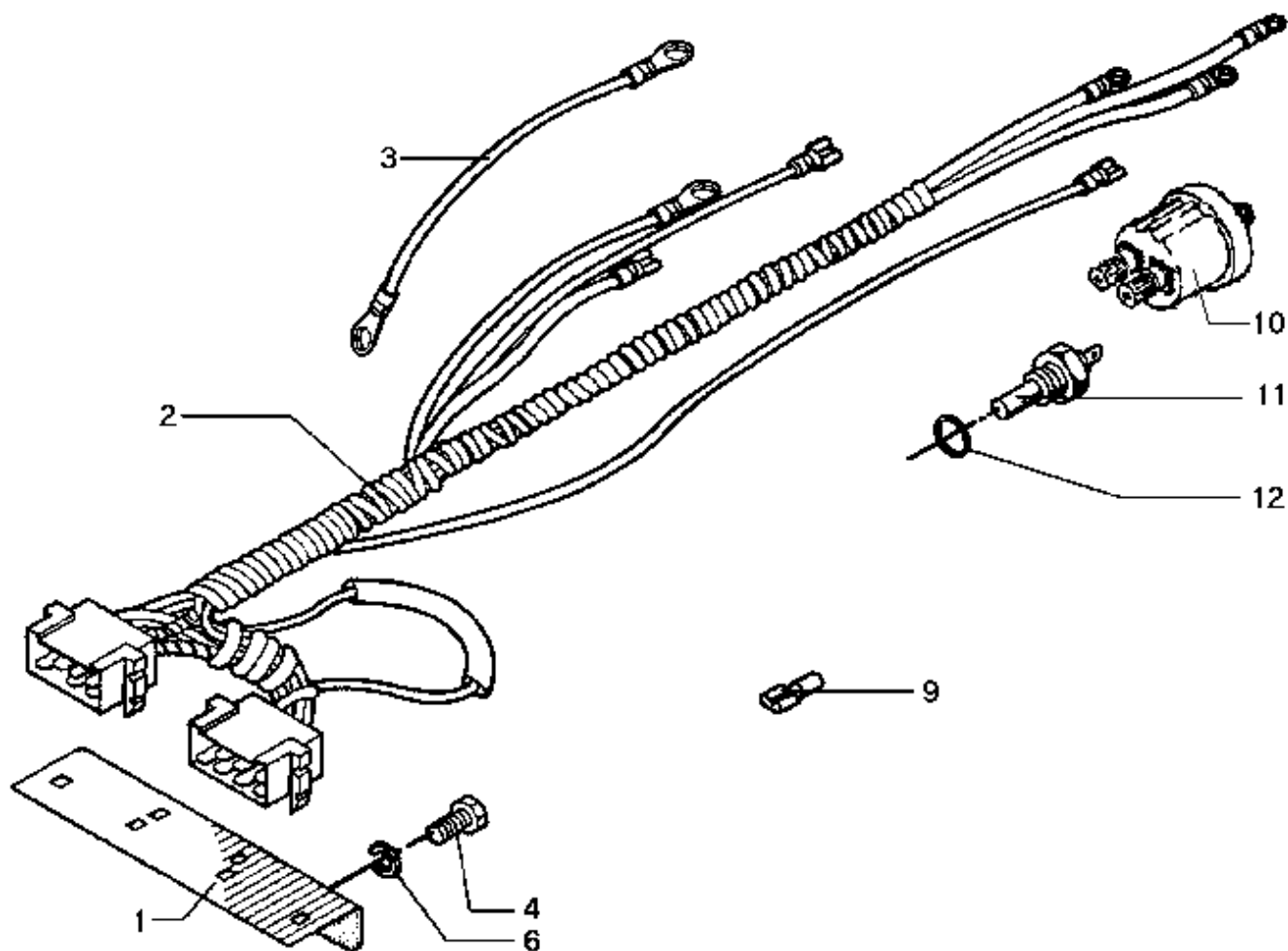
| Pos. | Part No. | Qty. | Beskrivelse                    | Description                       | Benennung                     |
|------|----------|------|--------------------------------|-----------------------------------|-------------------------------|
| 2    | 500C2367 | 24   | Sætskrue                       | Set screw                         | Setzschraube                  |
| 4    | 504E1120 | 1    | Lukkeskrue                     | Plug                              | Verschlusschraube             |
| 5    | 522C3044 | 1    | Pakning, kobber                | Gasket, copper                    | Dichtung, Kupfer              |
| 6    | 033D1302 | 1    | Smøreoliepumpe komplet         | Luboil pump complete              | Schmierölpumpe komplett       |
| 7    | 000E4927 | 1    | Lejepart f. smøreoliepumpe     | Bearing half f. luboil pump       | Lagerhälfte f. Schmierölpumpe |
| 8    | 000E4777 | 1    | Tandhjul f. smøreoliepumpe     | Gearwheel for luboil pump         | Zahnrad f. Schmierölpumpe     |
| 9    | 000E5159 | 1    | Spændeskive                    | Washer                            | Federscheibe                  |
| 10   | 501E2361 | 1    | Undersænket skrue              | Countersunk screw                 | Senkschraube                  |
| 11   | 008E5032 | 1    | Aksel og rotor, smøreoliepumpe | Shaft and rotor                   | Welle und Rotor               |
| 12   | 000E5033 | 1    | Mellemlade for smøreoliepumpe  | Intermediate plate                | Einlage                       |
| 13   | 520G1307 | 2    | Cylinderstift                  | Cylindric pin                     | Zylinderstift                 |
| 14   | 000E4928 | 1    | Hus for smøreoliepumpe         | Casing for luboil pump            | Gehäuse f. Schmierölpumpe     |
| 15   | 501A2368 | 3    | Cylinderskrue                  | Unbraco screw                     | Zylinderschraube              |
| 16   | 522F1020 | 3    | Fjederskive                    | Spring washer                     | Federscheibe                  |
| 17   | 500D2371 | 3    | Maskinbolt                     | Machine bolt                      | Sechskantschraube             |
| 18   | 522F1020 | 3    | Fjederskive                    | Spring washer                     | Federscheibe                  |
| 19   | 000E5039 | 1    | Trykrør, oliepumpe             | Pressure pipe, oil pump           | Druckrohr, Ölpumpe            |
| 20   | 560F0017 | 1    | O-ring                         | O-ring                            | Abdichtring                   |
| 21   | 000E5042 | 2    | Nippel for olierør             | Nipple for oil pipe               | Nippel für Ölrohr             |
| 22   | 560F0017 | 2    | O-ring                         | O-ring                            | Abdichtring                   |
| 23   | 008E5053 | 1    | Sugerør og oliesi komplet      | Suction pipe and oil strain compl | Saugrohr u. Ölsieb komplett   |
| 24   | 560F0020 | 1    | O-ring                         | O-ring                            | Abdichtring                   |
| 25   | 500C2361 | 2    | Sætskrue                       | Set screw                         | Setzschraube                  |
| 26   | 522F1020 | 2    | Fjederskive                    | Spring washer                     | Federscheibe                  |
| 27   | 551D0121 | 1    | Rørbøjle                       | Saddle                            | Rohrbügel                     |
| 28   | 551D0126 | 1    | Rørbøjle                       | Saddle                            | Rohrbügel                     |
| 29   | 500D2316 | 1    | Maskinbolt                     | Machine bolt                      | Sechskantschraube             |
| 30   | 510A1207 | 2    | Møtrik                         | Nut                               | Mutter                        |
| 31   | 008E7523 | 1    | Trykrør oliekanal              | Pressure pipe                     | Druckrohr                     |
| 32   | 560B0016 | 1    | O-ring                         | O-ring                            | Abdichtring                   |
| 33   | 522F1020 | 1    | Fjederskive                    | Spring washer                     | Federscheibe                  |
| 34   | 500C2366 | 1    | Sætskrue                       | Set screw                         | Setzschraube                  |





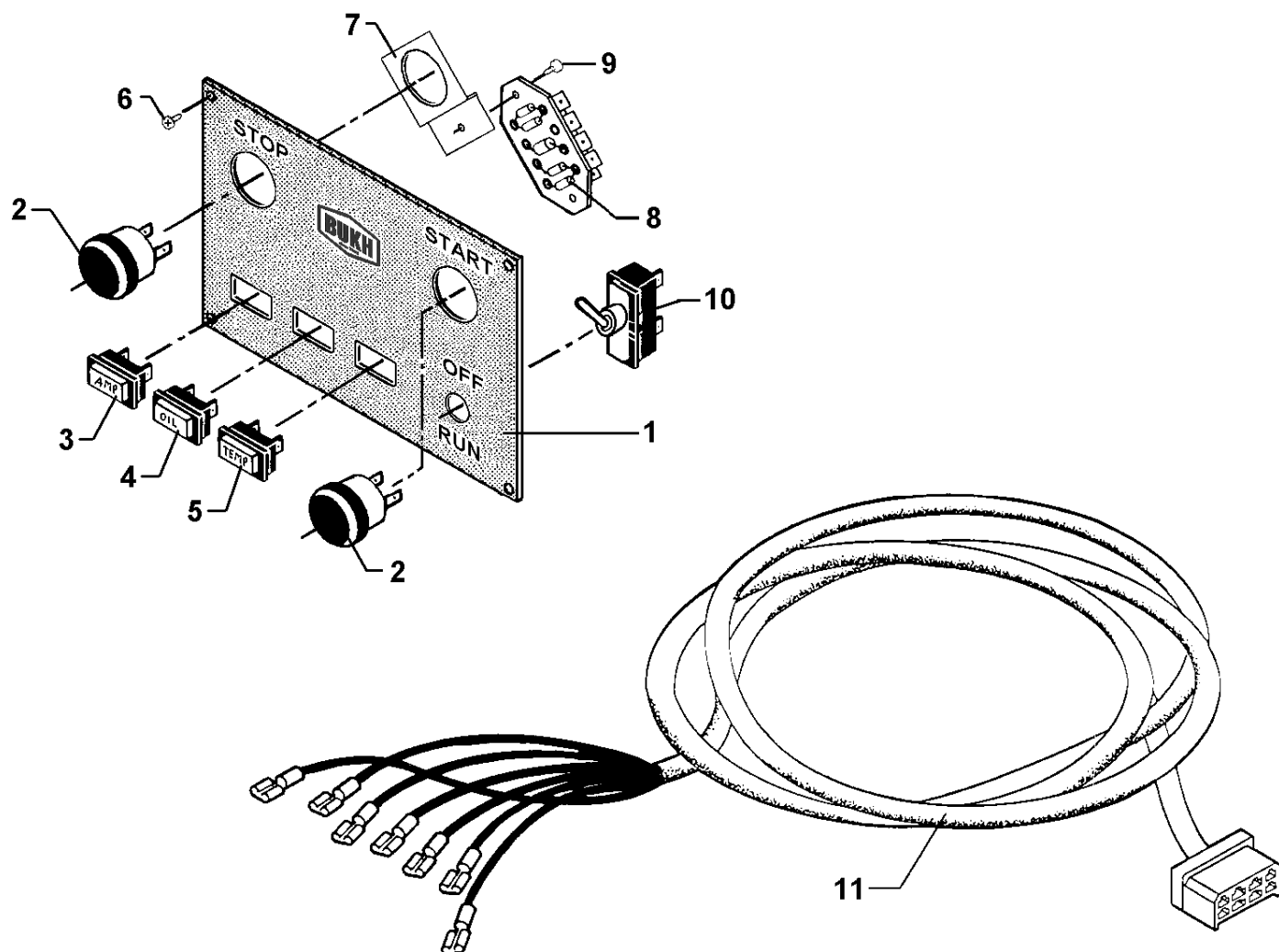
**Håndstart**  
**Hand start**  
**Handanlass**

| Pos. | Part No. | Qty. | Beskrivelse                     | Description                     | Benennung                      |
|------|----------|------|---------------------------------|---------------------------------|--------------------------------|
| 1    | 000E4938 | 1    | Kædekasse                       | Chain case                      | Kettenkasten                   |
| 2    | 000E5099 | 1    | Pakning for kædekasse           | Gasket for chain case           | Dichtung f. Kettenkasten       |
| 3    | 501A2365 | 4    | Unbrakoskrue, M8x25             | Unbraco screw, M8x25            | Unbraco Schraube, M8x25        |
| 4    | 522F1020 | 4    | Fjederskive, ø8                 | Spring washer, ø8               | Federscheibe, ø8               |
| 5    | 000E4939 | 2    | Dæksel for kædekasse            | Cover for chain case            | Deckel f. Kettenkasten         |
| 6    | 560K0079 | 2    | O-ring                          | O-ring                          | Abdichtring                    |
| 7    | 500D2373 | 4    | Maskinbolt, M8x65               | Machine bolt, M8x65             | Sechskantschraube, M8x65       |
| 8    | 522F1020 | 8    | Fjederskive, ø8                 | Spring washer, ø8               | Federscheibe, ø8               |
| 9    | 510A1208 | 4    | Møtrik, M8                      | Nut, M8                         | Mutter, M8                     |
| 10   | 000E5100 | 1    | Kædehjul for håndstart          | Chain wheel for hand start      | Kettenrad für Handanlass       |
| 11   | 560K0027 | 2    | O-ring                          | O-ring                          | Abdichtring                    |
| 12   | 542K0060 | 1    | Rullekæde med samleled          | Roller chain                    | Rollenkette                    |
| 13   | 520G1260 | 1    | Cylinderstift                   | Cylindric pin                   | Zylindrische Stift             |
| 14   | 000E4913 | 1    | Medbringeraksel f. ventilløfter | Driving shaft                   | Mitnehmerwelle                 |
| 15   | 560F0009 | 1    | O-ring                          | O-ring                          | Abdichtring                    |
| 16   | 000E4914 | 1    | Håndtag for ventilløfter        | Handle                          | Handgriff                      |
| 17   | 500D2317 | 1    | Maskinbolt, M6x35               | Machine bolt, M6x35             | Sechskantschraube, M6x35       |
| 18   | 522C1219 | 1    | Underlagsskive, ø6 st.          | Washer, ø6                      | Unterlagsscheibe, ø6           |
| 19   | 510A1207 | 1    | Møtrik, M6                      | Nut, M6                         | Mutter, M6                     |
| 20   | 000E4902 | 1    | Drejefjeder for ventilløfter    | Spring                          | Feder                          |
| 21   | 000E4901 | 1    | Aksel for ventilløfter          | Shaft                           | Welle                          |
| 22   | 510A1207 | 1    | Møtrik, M6                      | Nut, M6                         | Mutter, M6                     |
| 23   | 000E4900 | 1    | Stopskrue for ventilløfter      | Headless screw                  | Anschlagschraube               |
| 24   | 000E4903 | 3    | Anslagsskrue                    | Stop screw                      | Anschlagschraube               |
| 25   | 510A1206 | 3    | Møtrik, M5                      | Nut, M5                         | Mutter, M5                     |
| 27   | 008E5126 | 1    | Startsving, komplet agter       | Starting handle, complete rear  | Andrehkurbel, komplett hinten  |
| 28   | 008E5124 | 1    | Startsving, komplet for         | Starting handle, complete front | Andrehkurbel, komplett vordere |
| 29   | 000E7243 | 1    | Svinghjul med tandkrans, svært  | Flywheel with gearrim           | Schwungrad mjit Zahnkranz      |
| 30   | 501A3220 | 6    | Unbrakoskrue                    | Unbraco screw                   | Unbraco Schraube               |
| 31   | 000E4557 | 6    | Skive                           | Washer                          | Scheibe                        |
| 32   | 000E6825 | 1    | Strammejern                     | Tension device                  | Justierungshebel               |
| 33   | 000E6826 | 1    | Konsol                          | Brachet                         | Konsole                        |
| 34   | 501A2368 | 2    | Unbrakoskrue, M8x40             | Unbraco screw, M8x40            | Unbraco Schraube, M8x40        |
| 35   | 522F1020 | 1    | Fjederskive, ø8                 | Spring washer, ø8               | Federscheibe, ø8               |
| 36   | 500C2363 | 1    | Sætskrue, M8x20                 | Set screw, M8x20                | Setzschaube, M8x20             |



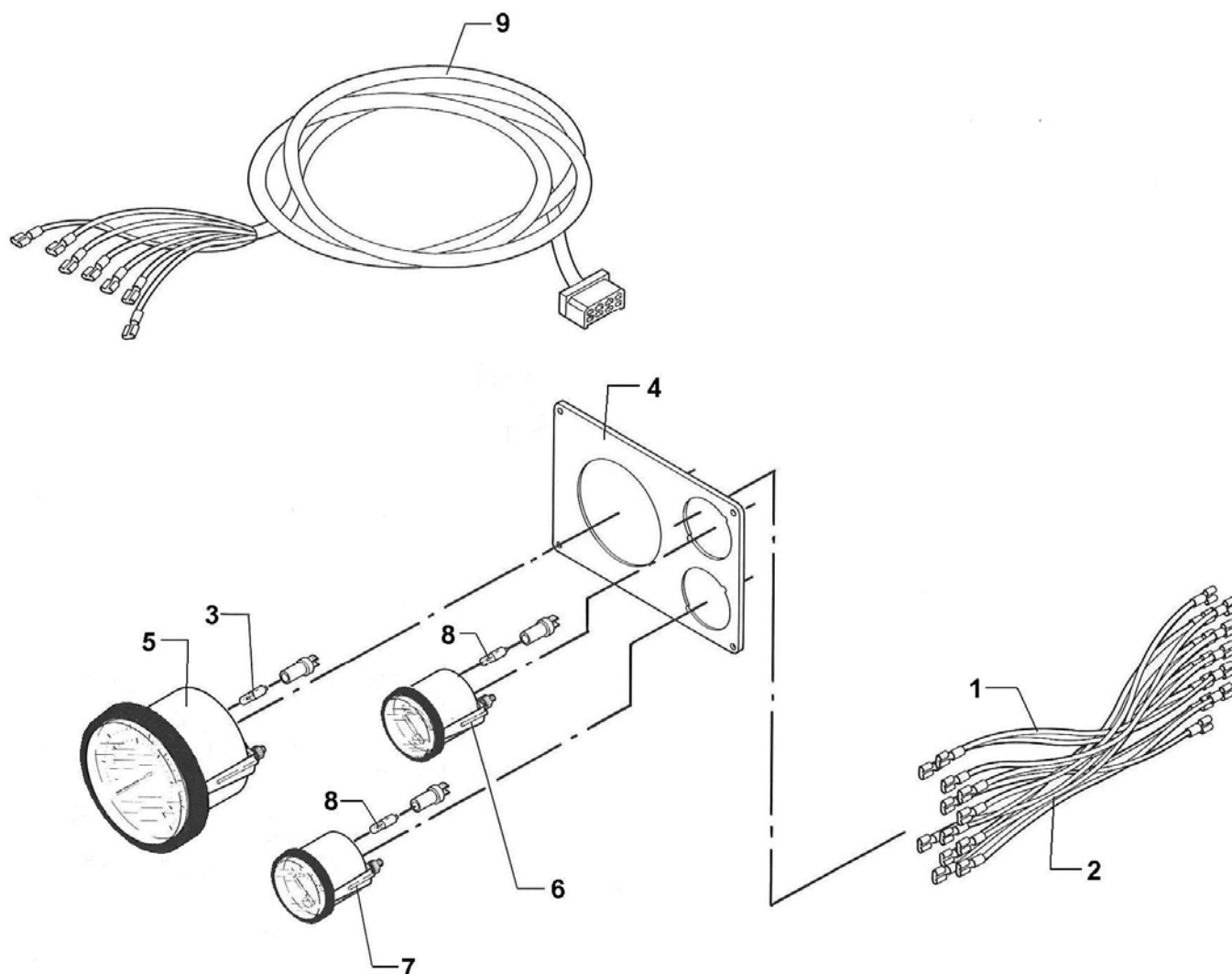
**Ledningsnet**  
**Electric mains**  
**Leitungsnetz**

| Pos. | Part No. | Qty. | Beskrivelse               | Description                  | Benennung                      |
|------|----------|------|---------------------------|------------------------------|--------------------------------|
| 1    | 000E5174 | 1    | Konsol for multistik      | Bracket for multiple plug    | Konsole für Mehrfachstecker    |
| 2    | 008E6998 | 1    | Ledningsnet, komplet      | Electric mains, complete     | Leitungsnetz, komplett         |
| 3    | 008E8926 | 1    | Ledning for ladegenerator | Electric wire for alternator | Leitung für Drehstromgenerator |
| 4    | 500C2361 | 2    | Særskrue, M8x16 DIN 933   | Set screw, M8x16 DIN 933     | Setzschraube, M8x16 DIN 933    |
| 6    | 522F1020 | 2    | Fjederskive ø8            | Spring washer ø8             | Federscheibe ø8                |
| 9    | 551C0354 | 1    | Fladstik                  | Flat plug                    | Flachstecker                   |
| 10   | 552J0965 | 1    | Olietrykskontakt          | Oil pressure switch          | Öldruckschalter                |
| 11   | 552J0918 | 1    | Temperaturkontakt 100°C   | Temperature switch 100°C     | Temperaturschalter 100°C       |
| 11   | 552J0919 | 1    | Temperaturkontakt 80°C    | Temperature switch 80°C      | Temperaturschalter 80°C        |
| 12   | 522C3021 | 1    | Pakning ø14/ø20 DIN 7603  | Gasket ø14/ø20 DIN 7603      | Dichtung ø14/ø20 DIN 7603      |



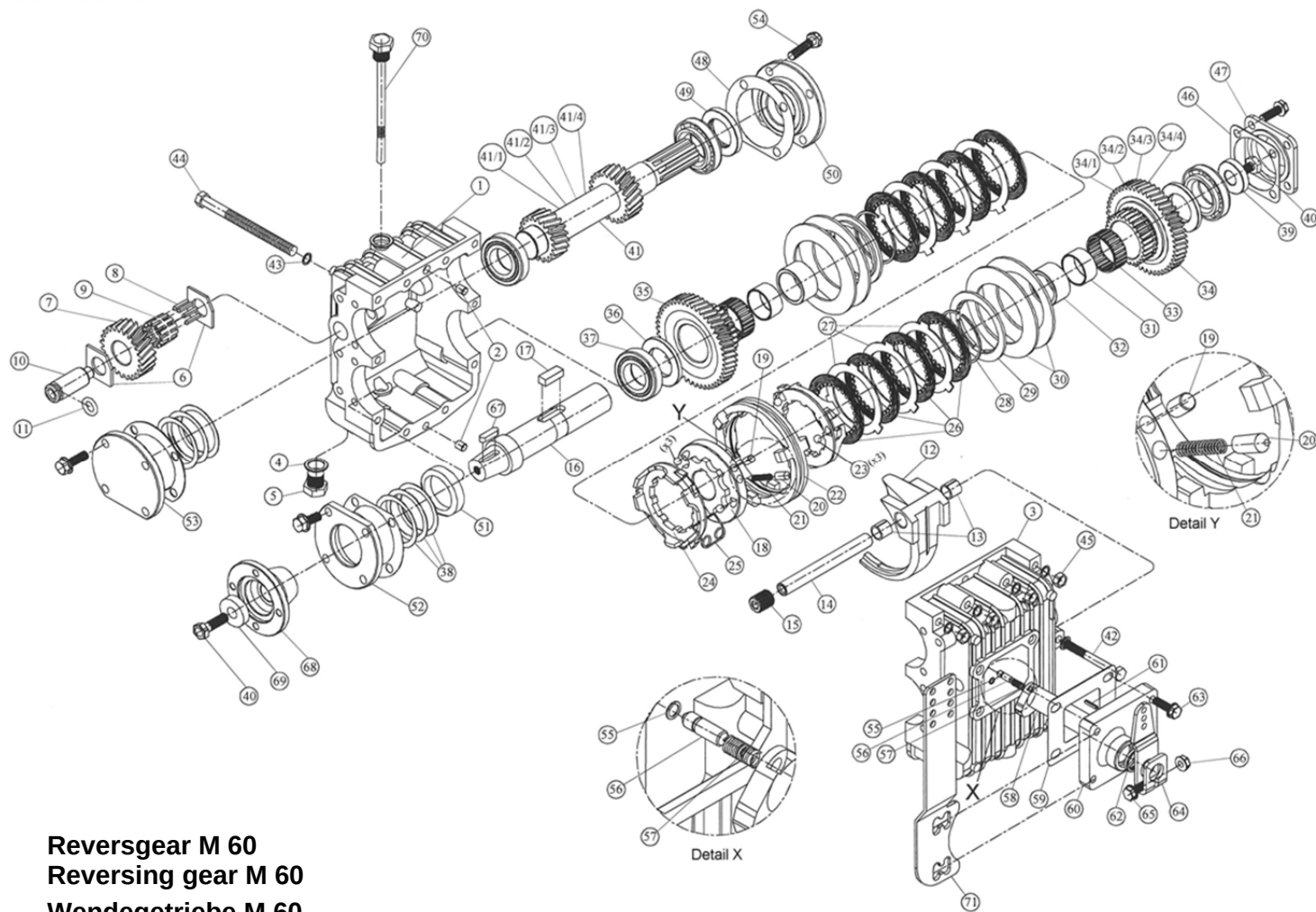
**Betjeningspanel**  
**Control panel**  
**Bedienungstafel**

| Pos. | Part No. | Qty. | Beskrivelse                      | Description                     | Benennung                            |
|------|----------|------|----------------------------------|---------------------------------|--------------------------------------|
| 1    | 000E9776 | 1    | Betjeningspanel                  | Control panel                   | Bedienungstafel                      |
| 2    | 552K0008 | 2    | Trykknop                         | Push button                     | Druckknopf                           |
| 3    | 552A0357 | 1    | Kontrollampe Rød/AMP             | Warning light Red/AMP           | Kontrollampe Rot/AMP                 |
| 4    | 552A0356 | 1    | Kontrollampe Orange/OIL          | Warning light Orange/OIL        | Kontrollampe Orange/OIL              |
| 5    | 552A0355 | 1    | Kontrollampe Grøn/TEMP           | Warning light Green/TEMP        | Kontrollampe Grün/TEMP               |
| 6    | 502M9330 | 4    | Selvskærende skrue 3,5x16        | Self-tapering screw 3.5x16      | Selbstschneidende Schraube 3,5x16    |
| 7    | 000E9789 | 1    | Vinkel                           | Bracket                         | Winkel                               |
| 8    | 008E9694 | 1    | Fordelerplade med summer         | Distributor plate with buzzer   | Verteilungsplatte mit Summer         |
| 9    | 502M9208 | 1    | Selvskærende skrue 2,9x9,5       | Self-tapering screw 2.9x9.5     | Selbstschneidende Schraube 2,9x9,5   |
| 10   | 552K0211 | 1    | Omskifter                        | Switch                          | Schalter                             |
| 11   | 008E8819 | 1    | Kabelbundt, 5,5 m                | Bundle of cables, 5.5 m         | Kabelbündel, 5,5 m                   |
|      | 020D2303 | 1    | Forlænger kabel, 2 m (ikke ill.) | Extension cable, 2 m (not ill.) | Verlängerungskabel, 2 m (nicht ill.) |
|      | 008E9777 | 1    | Betjeningspanel, komplet         | Control panel, complete         | Bedienungstafel, Komplett            |



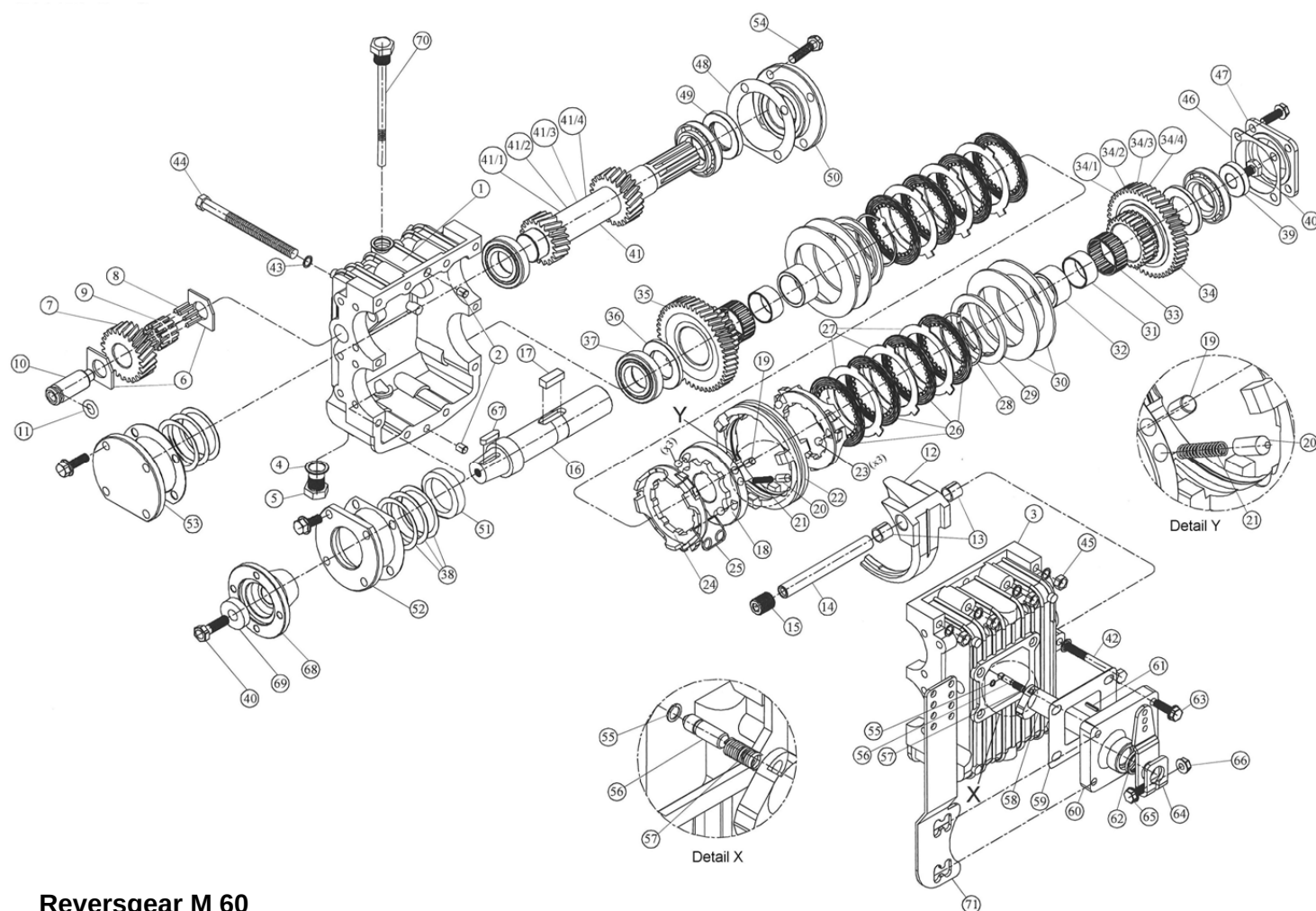
**Instrumentpanel**  
**Instrument panel**  
**Instrumententafel**

| Pos. | Part No. | Qty. | Beskrivelse                      | Description                     | Benennung                            |
|------|----------|------|----------------------------------|---------------------------------|--------------------------------------|
| 1    | 008E9054 | 3    | Ledning, sort                    | Wire, black                     | Leitung, schwarz                     |
| 2    | 008E9055 | 3    | Ledning, rød                     | Wire, red                       | Leitung, rot                         |
| 3    | 552A1510 | 2    | Lampe for omdrejningstæller      | Light for tachometer            | Lampe für Tachometer                 |
| 4    | 000E4554 | 1    | Instrumentpanel                  | Instrument panel                | Instrumententafel                    |
| 5    | 552J0920 | 1    | Omdrejningstæller                | Tachometer                      | Tachometer                           |
| 6    | 552J1006 | 1    | Kølevandstermometer              | Water temperature gauge         | Kühlwasserthermometer                |
| 7    | 552J1007 | 1    | Olietryksmanometer               | Oil pressure gauge              | Schmierölmanometer                   |
| 8    | 552A1520 | 2    | Lampe for termo/manometer        | Light for temp/pressure gauge   | Lampe für Tërmo/Manometer            |
| 9    | 008E9218 | 1    | Kabelbundt, 5,5 m                | Bundle of cables, 5.5 m         | Kabelbündle, 5,5 m                   |
|      | 020D2303 | 1    | Forlænger kabel, 2 m (ikke ill.) | Extension cable, 2 m (not ill.) | Verlängerungskabel, 2 m (nicht ill.) |
|      | 023D2107 | 1    | Instrumentpanel, komplet         | Instrument panel, complete      | Instrumententafel, Komplett          |



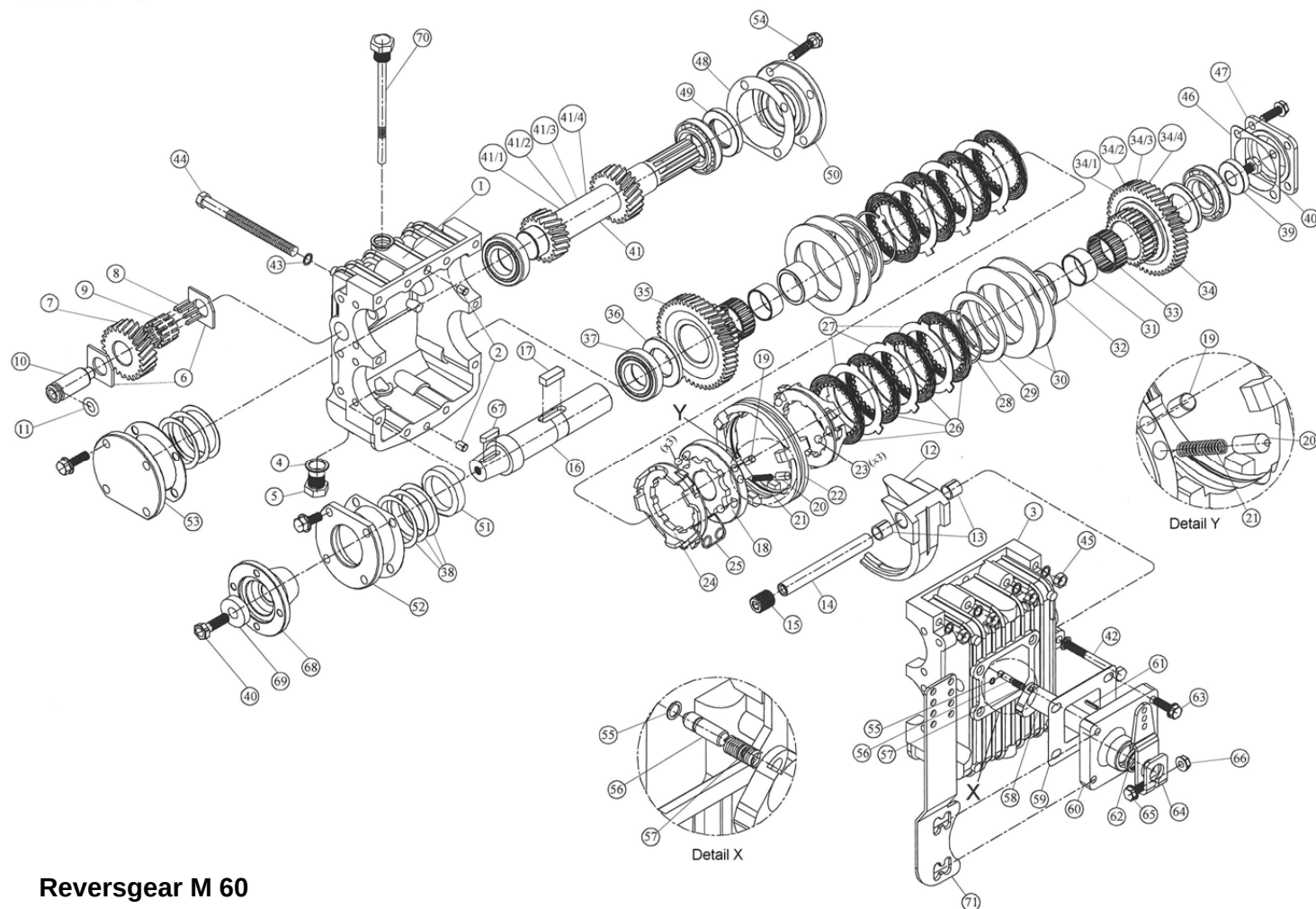
**Reversgear M 60**  
**Reversing gear M 60**  
**Wendegetriebe M 60**

| Pos. | Part No. | Qty. | Beskrivelse                        | Description                      | Benennung                               |
|------|----------|------|------------------------------------|----------------------------------|-----------------------------------------|
| 1    | M60-01   | 1    | Gearhus, venstre                   | Gearcase, left                   | Getriebekasten, links                   |
| 2    | M60-02   | 2    | Passtift $\varnothing 8 \times 14$ | Pin $\varnothing 8 \times 14$    | Zylinderstift $\varnothing 8 \times 14$ |
| 3    | M60-03   | 1    | Gearhus, højre                     | Gearcase, right                  | Getriebekasten, rechts                  |
| 4    | M60-04   | 2    | Skive                              | Washer                           | Scheibe                                 |
| 5    | M60-05   | 1    | Olieaftapningsprop                 | Oil drain plug                   | Ölablaßpfropfen                         |
| 6    | M60-06   | 2    | Slutblik                           | Flake                            | Schließblech                            |
| 7    | M60-07   | 1    | Mellemhjul                         | Intermediate gear                | Zwischenrad                             |
| 8    | M60-08   | 24   | Nåleleje                           | Needle bearing                   | Nadellager                              |
| 9    | M60-09   | 1    | Nålelejehus                        | Needle bearing cage              | Nadellagerhaus                          |
| 10   | M60-10   | 1    | Passtift                           | Pin                              | Zylinderstift                           |
| 11   | M60-11   | 1    | O-ring $\varnothing 14 \times 3$   | O-ring $\varnothing 14 \times 3$ | O-ring $\varnothing 14 \times 3$        |
| 12   | M60-12   | 1    | Skiftegaffel                       | Shifting fork                    | Schaltgabel                             |
| 13   | M60-13   | 2    | Bøsning                            | Plain bush                       | Buchse                                  |
| 14   | M60-14   | 1    | Aksel for gaffel                   | Fork shaft                       | Welle für Gabel                         |
| 15   | M60-15   | 1    | Gevindprop                         | Screw plug                       | Gewindepfropfen                         |
| 16   | M60-16   | 1    | Udgangsaksel                       | Output shaft                     | Ausgangswelle                           |
| 17   | M60-17   | 1    | Feder                              | Key                              | Federkeil                               |
| 18   | M60-18   | 1    | Styr                               | Guide sleeve                     | Führung                                 |
| 19   | M60-19   | 3    | Passtift $\varnothing 8 \times 16$ | Pin $\varnothing 8 \times 16$    | Zylinderstift $\varnothing 8 \times 16$ |
| 20   | M60-20   | 3    | Pal                                | Detent pin                       | Klinke                                  |
| 21   | M60-21   | 3    | Trykfeder                          | Compression spring               | Druckfeder                              |
| 22   | M60-22   | 1    | Skitemuffe                         | Actuating sleeve                 | Schalthülse                             |



**Reversgear M 60**  
**Reversing gear M 60**  
**Wendegetriebe M 60**

| Pos. | Part No. | Qty. | Beskrivelse                | Description                | Benennung                    |
|------|----------|------|----------------------------|----------------------------|------------------------------|
| 23   | M60-23   | 6    | Kugleleje ø8               | Ball bearing ø8            | Kugellager ø8                |
| 24   | M60-24   | 2    | Lamelstyr                  | Disc carrier               | Scheibeführung               |
| 25   | M60-25   | 3    | Fjeder                     | Spring                     | Feder                        |
| 26   | M60-26   | 8    | Friktionslamel             | Friction disc              | Friktionsscheibe             |
| 27   | M60-27   | 6    | Koblingslamel              | Clutch disc                | Kupplungsscheibe             |
| 28   | M60-28   | 2    | Låsering                   | Circlip                    | Sprengring                   |
| 29   | M60-29   | 2    | Trykring                   | Thrust ring                | Druckring                    |
| 30   | M60-30   | 4    | Torsionsfjeder             | Torsional spring           | Torsionsfeder                |
| 31   | M60-31   | 2    | Indre nålelejer            | Needle bearing inner race  | Inner Nadellager             |
| 32   | M60-32   | 2    | Afstandsstykke             | Spacer                     | Distanzstück                 |
| 33   | M60-33   | 2    | Nålehus                    | Needle cage                | Nadelhaus                    |
| 34   | M60-34   | 1    | Tandhjul, "Frem" 1,55:1    | Forward gear 1.55:1 ratio  | Zahnrad "Vorw." 1,55:1       |
| 34/1 | M60-34/1 | 1    | Tandhjul, "Frem" 2,13:1    | Forward gear 2.13:1 ratio  | Zahnrad "Vorw." 2,13:1       |
| 34/2 | M60-34/2 | 1    | Tandhjul, "Frem" 2,63:1    | Forward gear 2.63:1 ratio  | Zahnrad "Vorw." 2,63:1       |
| 34/3 | M60-34/3 | 1    | Tandhjul, "Frem" 2,88:1    | Forward gear 2.88:1 ratio  | Zahnrad "Vorw." 2,88:1       |
| 34/4 | M60-34/4 | 1    | Tandhjul, "Frem" 2,94:1    | Forward gear 2.94:1 ratio  | Zahnrad "Vorw." 2,94:1       |
| 35   | M60-35   | 1    | Tandhjul, "Bak" 1,95:1     | Reverse gear 1.95:1 ratio  | Zahnrad "Rückw." 1,95:1      |
| 36   | M60-36   | 2    | Afstandsstykke (Frem, Bak) | Spacer, (Forward, Reverse) | Distanzstück (Vorne, Zurück) |
| 37   | M60-37   | 4    | Rulleleje                  | Taper roller bearing       | Rollenlager                  |



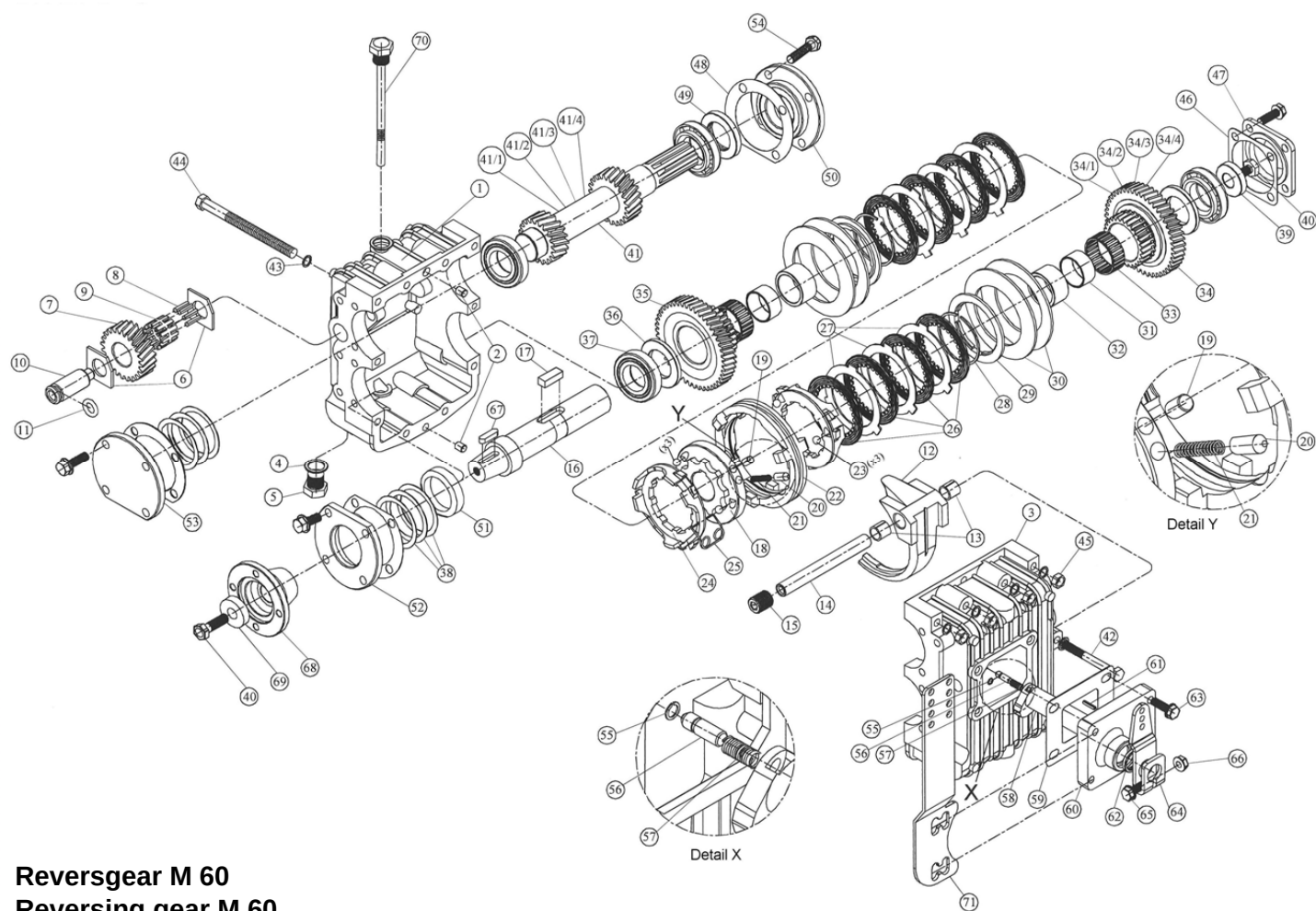
**Reversgear M 60**  
**Reversing gear M 60**  
**Wendegetriebe M 60**

| Pos. | Part No. | Qty. | Beskrivelse          | Description            | Benennung                 |
|------|----------|------|----------------------|------------------------|---------------------------|
| 38   | M60-38   | AR*  | Skive                | Shim                   | Scheibe                   |
| 39   | M60-39   | 1    | Afstandsstykke       | Spacer                 | Distanzstück              |
| 40   | M60-40   | 2    | Maskinskrue, M12x30  | Hex head screw, M12x30 | Sechskantschraube, M12x30 |
| 41   | M60-41   | 1    | Indgangsaksel 1,55:1 | Input shaft 1.55:1     | Eingangswelle 1,55:1      |
| 41/1 | M60-41/1 | 1    | Indgangsaksel 2,13:1 | Input shaft 2.13:1     | Eingangswelle 2,13:1      |
| 41/2 | M60-41/2 | 1    | Indgangsaksel 2,63:1 | Input shaft 2.63:1     | Eingangswelle 2.63:1      |
| 41/3 | M60-41/3 | 1    | Indgangsaksel 2,88:1 | Input shaft 2.88:1     | Eingangswelle 2,88:1      |
| 41/4 | M60-41/4 | 1    | Indgangsaksel 2,94:1 | Input shaft 2.94:1     | Eingangswelle 2,94:1      |
| 42   | M60-42   | 2    | Maskinskrue, M8x100  | Hex head screw, M8x100 | Sechskantschraube, M8x100 |
| 43   | M60-43   | 18   | Skive                | Washer                 | Scheibe                   |
| 44   | M60-44   | 8    | Maskinskrue, M8x120  | Hex head screw, M8x120 | Sechskantschraube, M8x120 |
| 45   | M60-45   | 1    | Møtrik, M8           | Hex nut, M8            | Mutter, M8                |
| 46   | M60-46   | 1    | Pakning              | Gasket                 | Dichtung                  |
| 47   | M60-47   | 1    | Dæksel               | Cover                  | Deckel                    |
| 48   | M60-48   | 1    | Pakning              | Gasket                 | Dichtung                  |
| 49   | M60-49   | 1    | Tætning              | Seal                   | Dichtung                  |
| 50   | M60-50   | 1    | Dæksel               | Cover                  | Deckel                    |
| 51   | M60-51   | 1    | Tætning              | Seal                   | Dichtung                  |

Bemærk: AR\* - Efter behov

Note: AR\* - As Required

Beachten: AR\* - Nach Bedarf



**Reversgear M 60**  
**Reversing gear M 60**  
**Wendegetriebe M 60**

| Pos. | Part No. | Qty. | Beskrivelse        | Description           | Benennung                |
|------|----------|------|--------------------|-----------------------|--------------------------|
| 52   | M60-52   | 1    | Dæksel             | Cover                 | Deckel                   |
| 53   | M60-53   | 1    | Dæksel             | Cover                 | Deckel                   |
| 54   | M60-54   | 16   | Maskinskrue, M8x20 | Hex head screw, M8x20 | Sechskantschraube, M8x20 |
| 55   | M60-55   | 1    | Låsering, ø5       | Circlip, ø5           | Sprengring, ø5           |
| 56   | M60-55   | 1    | Passtift           | Pin                   | Zylinderstift            |
| 57   | M60-57   | 1    | Fjeder             | Spring                | Feder                    |
| 58   | M60-58   | 1    | Omskifteraksel     | Actuating cam shaft   | Schaltwelle              |
| 59   | M60-59   | 1    | Pakning            | Gasket                | Dichtung                 |
| 60   | M60-60   | 1    | Dæksel             | Cover                 | Deckel                   |
| 61   | M60-61   | 1    | Passtift           | Dowel pin             | Zylinderstift            |
| 62   | M60-62   | 1    | Tætning            | Seal                  | Dichtung                 |
| 63   | M60-63   | 4    | Maskinskrue, M8x25 | Hex head screw, M8x25 | Sechskantschraube, M8x25 |
| 64   | M60-64   | 1    | Omskifterarm       | Actuating lever       | Schalterhebel            |
| 65   | M60-65   | 1    | Maskinskrue, M8x40 | Hex head screw, M8x40 | Sechskantschraube, M8x40 |
| 66   | M60-66   | 1    | Møtrik, M8         | Hex nut, M8           | Mutter, M8               |
| 67   | M60-67   | 1    | Feder, A8x7x25     | Key, A8x7x25          | Federkeil, A8x7x25       |
| 68   | M60-68   | 1    | Flangekobling      | Output coupling       | Flanschkupplung          |
| 69   | M60-69   | 1    | Afstandsstykke     | Spacer                | Distanzstück             |
| 70   | M60-70   | 1    | Pejlestok          | Dipstick              | Peilstab                 |
| 71   | M60-71   | 1    | Kabelbeslag        | Cable bracket         | Kabelbefestigung         |



## TOOLS AND SPARES FOR BUKH LIFEBOAT ENGINES

ITEM NOS. 1 - 20: STANDARD SUPPLY

**DV36: KIT No. 023D4103      DV48: KIT No. 023D4103**

| ITEM NO. | ENGINE TYPE | DESCRIPTION                | MATERIAL    | WEIGHT   | MEASUREMENTS | PART NO. |
|----------|-------------|----------------------------|-------------|----------|--------------|----------|
| 1        | DV36/48     | DOUBLE FORK SPANNER, 8/10  | STEEL       | 0.018 Kg | 110 mm       | 529V0002 |
| 2        | DV36/48     | DOUBLE FORK SPANNER, 13/17 | STEEL       | 0.076 Kg | 135 mm       | 529V0010 |
| 3        | DV36/48     | DOUBLE FORK SPANNER, 19/22 | STEEL       | 0.122 Kg | 190 mm       | 529V0017 |
| 4        | DV36/48     | DOUBLE FORK SPANNER, 24/27 | STEEL       | 0.228 Kg | 260 mm       | 529V0020 |
| 5        | DV36/48     | SCREWDRIVER                | STEEL/PLAST | 0.038 Kg | 210 mm       | 529V0102 |
| 6        | DV36/48     | ALLEN KEY, 4 mm            | STEEL       | 0.012 Kg | 70 x 30 mm   | 529V0324 |
| 7        | DV36/48     | ALLEN KEY, 5 mm            | STEEL       | 0.015 Kg | 85 x 30 mm   | 529V0325 |
| 8        | DV36/48     | ALLEN KEY, 8 mm            | STEEL       | 0.030 Kg | 110 x 40 mm  | 529V0328 |
| 9        | DV36/48     | ALLEN KEY, 10 mm           | STEEL       | 0.058 Kg | 120 x 50 mm  | 529V0330 |
| 10       | DV36/48     | BRIEFCASE                  | PLASTIC     | 0.044 Kg | 75 x 165 mm  | 529V9901 |

ITEM NOS. 21 - 36: FURTHER TO ABOVE MENTIONED PARTS AN ENLARGED KIT OF SPAREPARTS CAN BE DELIVERED AS OPTIONAL

**DV36: KIT No. 023D4208      DV48: KIT No. 0223T4205**

| ITEM NO. | ENGINE TYPE | DESCRIPTION                   | MATERIAL   | WEIGHT   | MEASUREMENTS      | PART NO.        |
|----------|-------------|-------------------------------|------------|----------|-------------------|-----------------|
| 21       | DV36/48     | INLET VALVE                   | STEEL      | 0.094 Kg | 36/9 x 125 mm     | 000E4887        |
| 22       | DV36/48     | OUTLET VALVE                  | STEEL      | 0.094 Kg | 33/9 x 125 mm     | 000E4888        |
| 23       | DV36/48     | VALVE SPRINGS, 2 PCS.         | STEEL      | 0.128 Kg | 32 x 60 mm        | 000E4891        |
| 24       | DV36/48     | PISTON RING SET, 3 PCS.       | STEEL      | 0.072 Kg | 85 mm             | 030D0304        |
| 27       | DV36/48     | FUEL PRESSURE PIPES           | STEEL      | 0.404 Kg |                   | 008E5209        |
| 29       | DV36/48     | COOLING WATER PUMP SEAL       | SYNTHETIC  | 0.020 Kg | 40 x 15 mm        | 530Q9972        |
| 30       | DV36/48     | COOLING WATER PUMP IMPELLER   | CAST STEEL | 0.212 Kg | 50 x 35 mm        | 000E4933        |
| 31       | DV36/48     | FUEL VALVE COMPLETE           | STEEL      | 0.248 Kg | 22 x 140 mm       | 610B9250        |
| 32       | DV36/48     | GASKET FOR COOLING WATER PUMP | O-RING     | 0.002 Kg |                   | 560K1119        |
| 33       | DV36/48     | SET OF GASKETS COMPLETE       |            | 0.562 Kg |                   | <b>033D4201</b> |
| 34       | DV36/48     | OIL SEAL                      | SYNTHETIC  | 0.028 Kg | 20 x 35 x 7 mm    | 561B0201        |
| 35       | DV36/48     | FEELER GAUGE                  | STEEL      | 0.032 Kg |                   | 529V9911        |
| 36       | DV36/48     | SPARE PARTS AND TOOL SUITCASE |            | 1.456 Kg | 340 x 225 x 80 mm | 569B1018        |