

Spare Parts Catalogue

Document ID

Installation

Engine type **TBD234V8**

Engine number

Project

Introduction

The Spare Parts Catalogue provides the necessary information for ordering parts.

Arrangement of Catalogue

The Spare Parts Catalogue is composed of:

- Drawings with item numbers (S/N)
- Parts lists showing the item number (S/N), part number, denomination and quantity per (sub-)assembly of each part.

Ordering Parts

When ordering parts please include the following information:

Installation Data:

- Engine Serial Number (see name plate of the engine)
- Engine Type
- Name of Ship or Installation

Parts Data:

- Part Number and Description
- Number of Illustration
- Serial (unique) Number of the Part (if available)
- Quantity of required parts

Shipment Data:

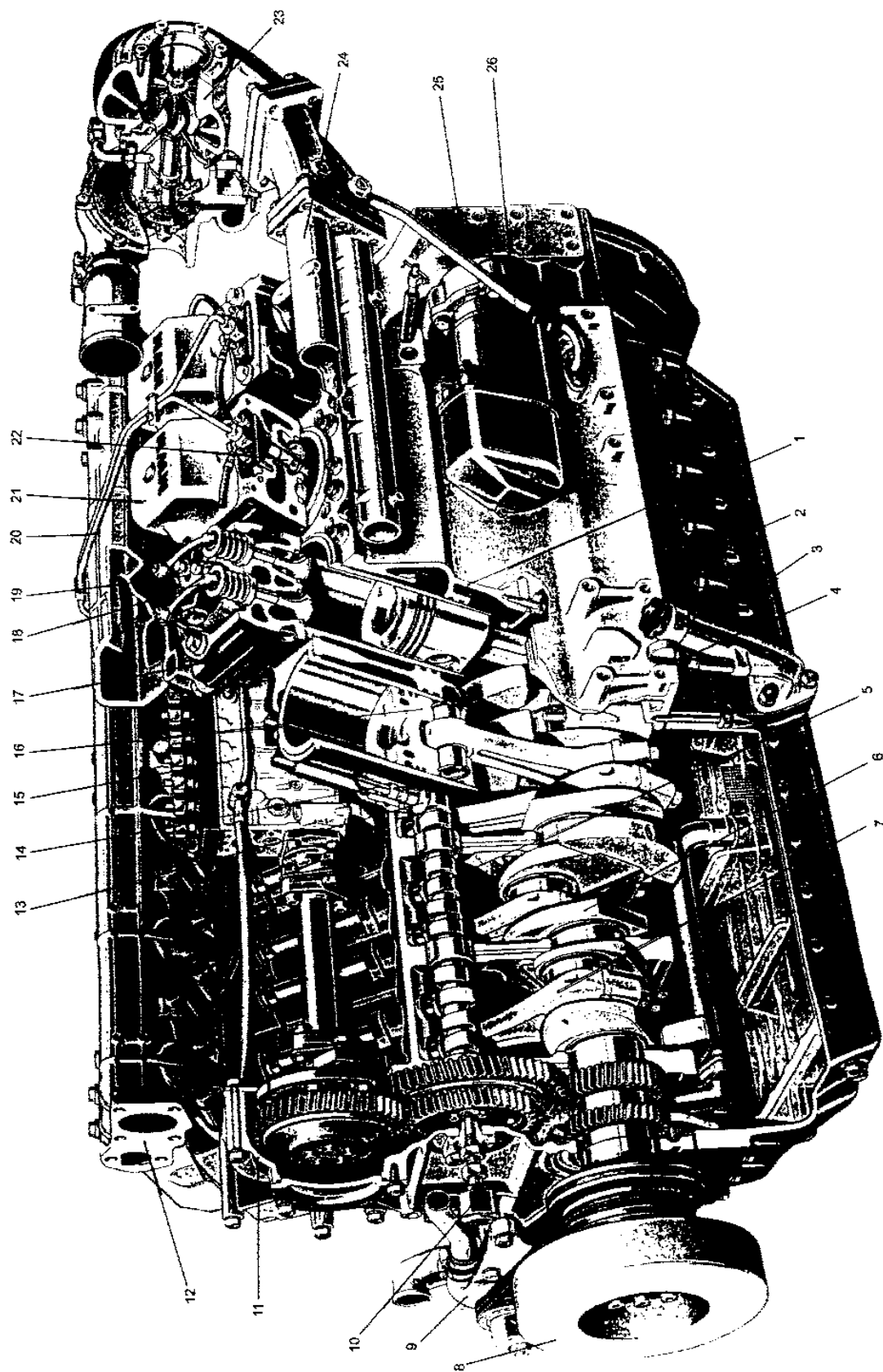
- Invoicing Address
- Forwarding Address
- Type of Shipment

The supply of spares is subject to our General Terms and Conditions for the sales of Spare Parts.

Ordering Address

The parts required should be ordered direct from Wärtsilä Netherlands B.V. or from one of the service stations, workshops and ship repair centres that form our service network in 70 countries worldwide.

Wärtsilä Netherlands B.V.
P.O. Box 10608, 8000 GB Zwolle
Office: Hanzelaan 95, 8017 JE Zwolle
The Netherlands
Tel. +31 38 425 32 53 (24 hrs)
Fax +31 38 422 35 64
service.sales.nl@wartsila.com



1. Crankcase 2. Oil pan 3. Oil filter 4. Diprod 5. Camshaft 6. Crankshaft 7. Connecting rod 8. Damper 9. Water pump 10. Speed transmitter 11. Front wall cover 12. Intake manifold 13. Tappet 14. Push rod 15. Injection pump 16. Piston 17. Cylinder head 18. Rocker arm 19. Support of rocker arm 20. Fuel pressure pipes 21. Cylinder head cover 22. Injector 23. Turbocharger 24. Exhaust pipe 25. Flywheel housing 26. Starter

| Engine Type | TBD234V6 | | | | TBD234V8 | | | | TBD234V12 | | | | | |
|---|----------------------------------|-----------|-----------------|---------------|----------------------------------|-----------------|------------------------|-------------------|--|-----------|-----------------|----------|---------------|--|
| Application | Marine Genset | Work Boat | High-speed Boat | Marine Genset | Work Boat | High-speed Boat | Stationary Main Engine | Stationary Engine | Marine Genset | Work Boat | High-speed Boat | | | |
| Cylinder Bore (mm) | 128 | | | | 128 | | | | 128 | | | | | |
| Stroke (mm) | 140 | | | | 140 | | | | 140 | | | | | |
| Piston Displacement | 10.8 | | | | 14.4 | | | | 21.6 | | | | | |
| Compression Ratio | 15:1 | | | | 15:1 | | | | 15:1 | | | | | |
| Rated Speed (r/min) | 1500 | 2100 | 2200 | 1500 | 2100 | 2200 | 2100 | 1500 | 1500 | 2100 | 2200 | | | |
| Rated Power (kW) | Continuous | 186 | 242 | 302/2200 | 249 | 323 | 405/2200 | 333 | 281 | 373 | 485 | 605/2200 | | |
| | 2h/12h Power | | | 332/2265 | | | 445/2265 | | | | | 665/2200 | | |
| | 0.5h/6h Power | | | 347/2300 | | | 465/2300 | | | | | 695/2265 | | |
| Mean Effective Pressure (Mpa) | 1.38 | 1.28 | 1.53 | 1.38 | 1.28 | 1.53 | 1.32 | 1.56 | 1.38 | 1.38 | 1.53 | | | |
| Mean Piston Speed (m/s) | 7.0 | 9.8 | 10.2 | 7.0 | 9.8 | 10.2 | 9.8 | 7.0 | 7.0 | 9.8 | 10.2 | | | |
| Specific Fuel Consumption at Continuous Power (g/kWh) | 199 | 205 | 205 | 195 | 200 | 205 | 205 | 203 | 197 | 202 | 205 | | | |
| Lube oil Consumption (g/kWh) | 1.4 | | | | 1.4 | | | | 1.4 | | | | | |
| Firing Order | A1-B2-A3-B1-A2-B3 | | | | A1-B2-A3-B1-A4-B3-A2-B4 | | | | A1-B5-A5-B3-A3-B6 A6-B2-A2-B4-A4-B1 | | | | | |
| Crankshaft Rotation (Facing the Flywheel) | Anti-Clockwise | | | | Anti-Clockwise | | | | Anti-Clockwise | | | | | |
| Starting Method | By Electricity or Compressed Air | | | | By Electricity or Compressed Air | | | | By Electricity or Compressed Air | | | | | |
| Engine Net Weight (kg) | 1275 | | | | 1485 | | | | 1310 | | | | 1960 | |
| Outline Dimension LxWxH (mm) | 1390x865x1135 | | | | 1565x910x1130 | | | | 2036x1130x1596 | | | | 1835x910x1130 | |
| Distance From Crankshaft Center to Lowest Point (mm) | 370 | | | | 365 | | | | 382 | | | | 365 | |

2.3 Engine type, design feature and main data (V6、V12)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|------------------------------------|-------------|----------------------------|------------------|--------------------|--------------|--------------------|-------|----------------|-------------|--------------------|-------|--------------------|-------|--------------------|-------------|----------------|-------|--------------|-------|----------------|-------------------|---------------|--|--|--|
| Model | 1257A | 1257B | 1252A | 1252B | 1258A | 1258B | 1258C | 1260A | 1261A | 1263A | 1271A | 1273A | 1273B | 1557A | 1560A | 1561A | 1563A | 1563B | 1568A | 1571A | 1571B | 1573A | 1590A | | | |
| Engine type | D234V6 | | | TBD234V6 | | | | | | | | | | | TBD234V12 | | | | | | D234V12 | | | | | |
| kW Engine output | 87 | 87 | 186 | 191 | 186 | 186 | 186 | 222 | 242 | 347 | 227 | 250 | 250 | 373 | 444 | 485 | 695 | 695 | 444(IV) | 455 | 455 | 580 | 194 | | | |
| r/min Engine speed | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1800 | 2100 | 2300 | 1800 | 2100 | 2100 | 1500 | 1800 | 2100 | 2300 | 2300 | 1500 | 1800 | 2100 | 1500 | | | | |
| % Overload capacity | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | 10 | | | 10 | 10 | | | | | 10 | 10 | 10 | | | | |
| Cooling method | Indirect cooling | Fan cooling | | Indirect cooling | | | | | | Fan cooling | | | Indirect cooling | | | Fan cooling | | | | | | | | | | |
| Intake method | Natural admission | | Supercharged heart cooling | | | | | | | | | | | | | | | | | | | Natural admission | | | | |
| Oil pan form | Wet | Dry | Wet | | Dry | Double start | | Wet | | | | | | | | | | | | | | Double start | | | | |
| Governor type | Mechanical | Electronic | Mechanical | | Electronic | | Mechanical | | | | | | | | | | | | | | | | | | | |
| Main application | Marine main genset | | Emergency pump | | Marine main genset | | Marine main engine | | Air compressor | | Repair well engine | | Marine main genset | | Marine main engine | | Emergency pump | | Lash-up pump | | Emergency pump | | Marine genset | | | |
| Remark | Electronic and mechanical governor | | | | | | | | | | | | | | | | | | | | | | | | | |

Engine type, design feature and main data (V8)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------------------|---------------|-----------------------|------------------------|----------------|-----------------------|------------------|-----------------------|-------------------|------------------|--------------------------|------------------------|--------------------------|--------------------------|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|------------------|------------------------|-------|
| Model | 1353A | 1353B | 1353C | 1354A | 1354B | 1356A | 1356B | 1356C | 1356D | 1356E | 1356F | 1358A | 1358B | 1363A | 1365A | 1371A | 1371B | 1373A | 1373B | 1373C | 1373D | 1359A | 1390A | 1391A |
| Engine type | TBD234V8 | | | | | | | | | | | | | | | | | | | | D234V8 | | | |
| ^① kW Engine output | 249 | 249 | 249 | 249 | 249 | 281 | 255 | ③281 | 267 | 249 | 281 | 296 | 296 | 323 | ②465 | 303 | 303 | 333 | 333 | ③367 | ③367 | 117 | 117 | 138 |
| r/min Engine speed | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1600 | 1500 | 1500 | 1800 | 1800 | 2100 | 2300 | 1800 | 1800 | 2100 | 2100 | 2100 | 2100 | 1500 | 1500 | 1800 |
| % Overload capacity | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | | | | 10 | 10 | 10 | |
| Cooling method | Indirect cooling | | | | Fan cooling | | | | Indirect cooling | | | | Fan cooling | | | | Indirect cooling | | | | Fan cooling | | | |
| Intake method | Charge air cooling | | | | | | | | | | | | | | | | | | | | | | Natural admission | |
| Oil pan form | Wet | Dry | Double start | | Wet | | | | | | | | | | | | | | | | | | | |
| Governor type | Mechanical | Electronic | Mechanical | | | | | | | | | | | | | | | | | | | | | |
| Main application | Marine main genset | Marine genset | Marine main engine | Fish main engine | Emergency pump | Emer gency pump | Marine genset | Emer gency pump | Cement vehicle | Marine genset | Marine main engine | Fish main engine | Marine main engine | Marine main engine | Marine engine of high speed boat | Slurry pump | Cement vehicle | Slurry pump | Cement vehicle | Slurry pump | Cement vehicle | Marine genset | Marine gency genset | |
| Remark | Electronic and mechanical governor | | | | | | | | | | | | | | | | | | | | | | | |

- ① Ambient condition for normal power
 Marine engine: Atmospheric pressure 100kPa, Intake temperature 45℃, Sea water temperature before charge air cooler 32℃, relative humidity 60%
 Stationary engine: Atmospheric pressure 100kPa, Intake temperature 25℃, Air temperature before charge air cooler 25℃, relative humidity 30%
- ② Output is 15%of overload, half an hour within 6 hours
- ③ Output of one hour

Engine parts group content

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List of engine parts

[illegible]

List of engine parts

| Group | Drawing No. | Denomination | Engine type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25-3420B 25-6424F 25-3425A 25-4420C 25-4420C 25-4424F 25-4425A 25-6421B 25-6421B 25-6424F 25-6421B 25-6425B 25-3420B 27-0420B 27-6400C | 6.0520.03.6.1204 | Injection pump with governor | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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List of engine parts

| Group | Drawing No. | Denomination | Engine type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | D234 V6 | | | | TBD234V6 | | | | | | | | D234V8 | | | | TBD234V8 | | | | | | | | | | | | D234 V12 | | TBD234V12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1257A | 1257B | 1252A | 1252B | 1258A | 1258B | 1258C | 1260A | 1261A | 1263A | 1271A | 1273A | 1273B | 1359A | 1390A | 1391A | 1353A | 1353B | 1353C | 1354A | 1354B | 1365A | 1365A | 1356A | 1356B | 1356C | 1356D | 1356F | 1358A | 1358B | 1363A | 1365A | 1371A | 1371B | 1373A | 1373B | 1373C | 1373D | 1557A | 1560A | 1561A | 1563A | 1563B | 1568A | 1571A | 1571B | 1573A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

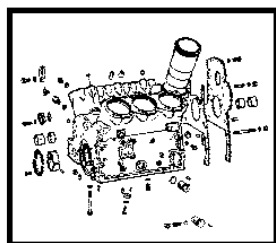
List of engine parts

[illegible]

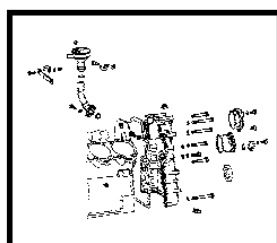
List of engine parts

| Group | Drawing No. | Denomination | Engine type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|-------------|--------------|-------------|-------|-------|----------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------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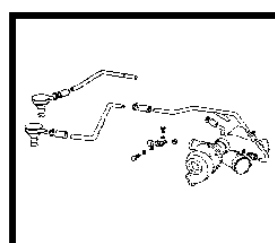
Breakdown figure of engine part group



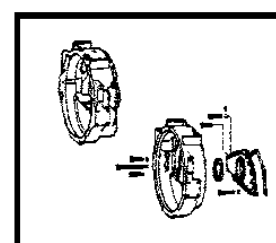
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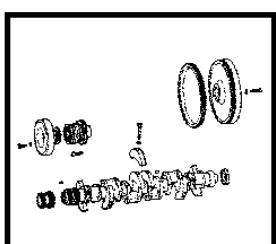
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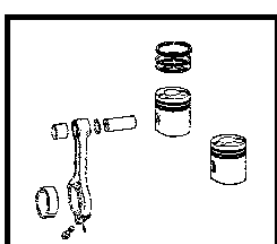
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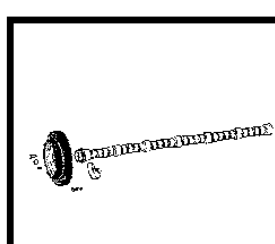
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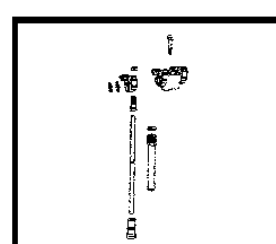
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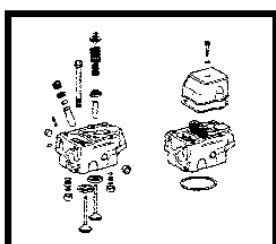
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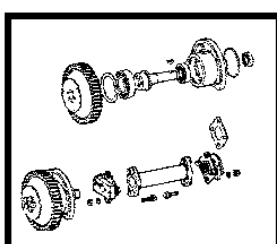
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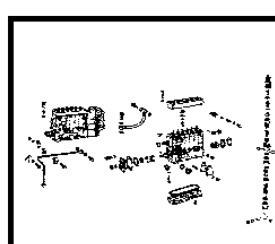
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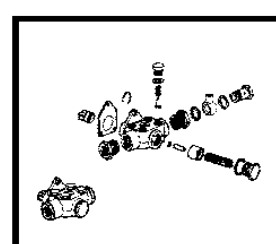
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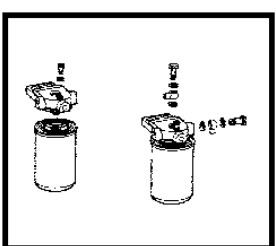
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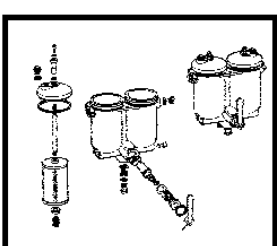
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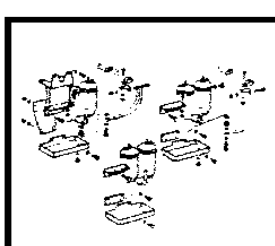
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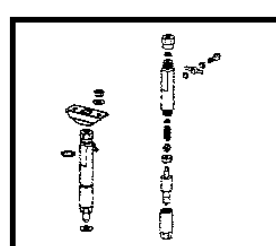
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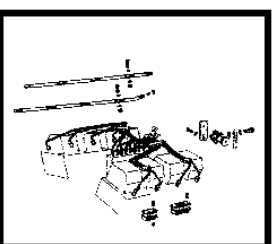
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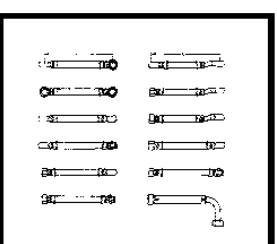
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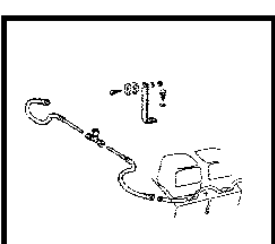
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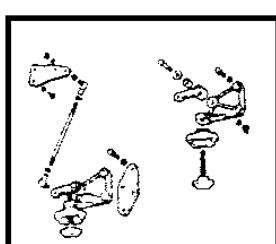
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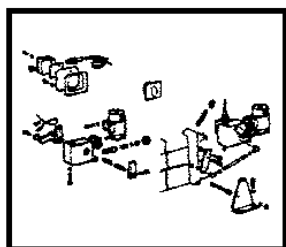
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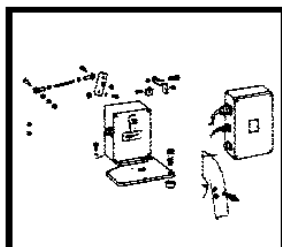
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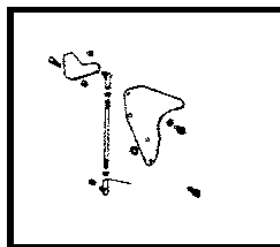
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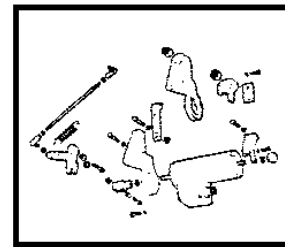
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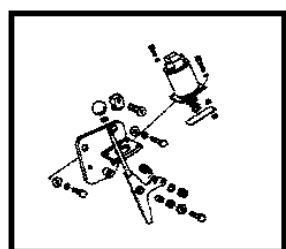
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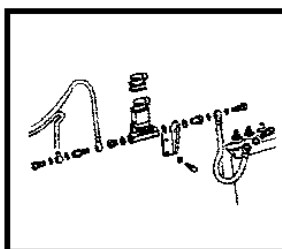
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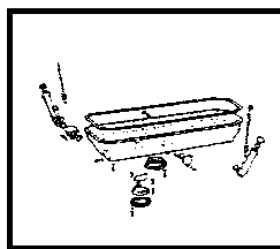
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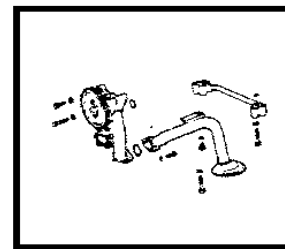
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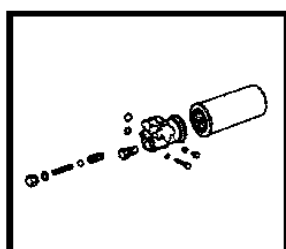
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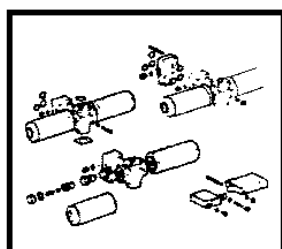
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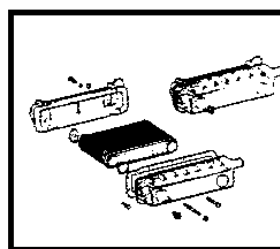
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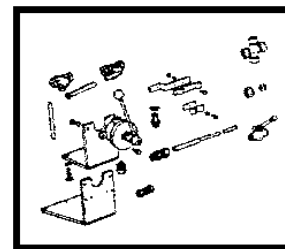
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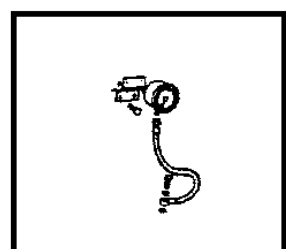
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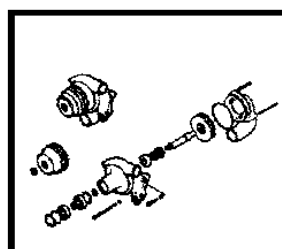
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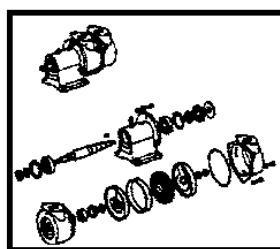
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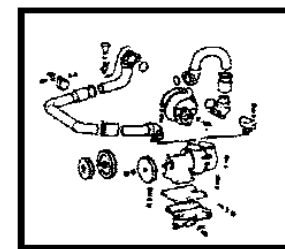
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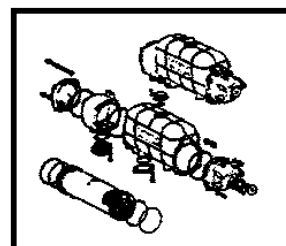
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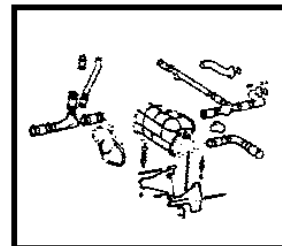
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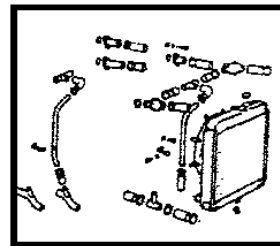
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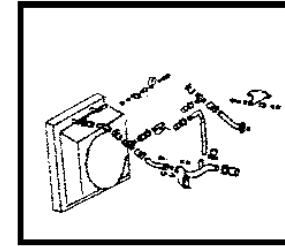
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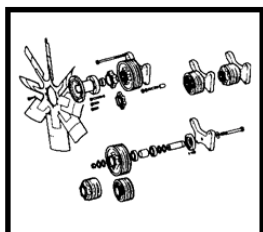
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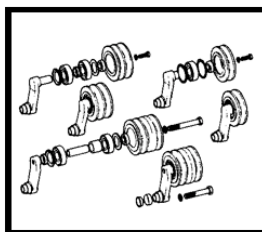
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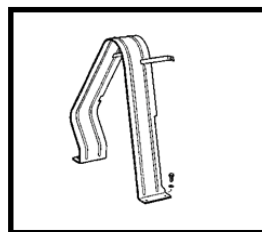
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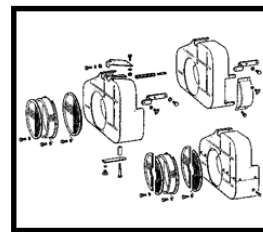
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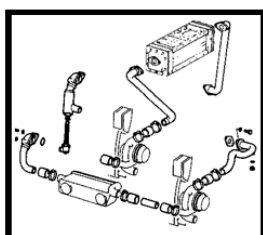
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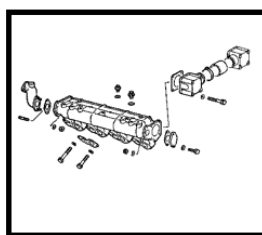
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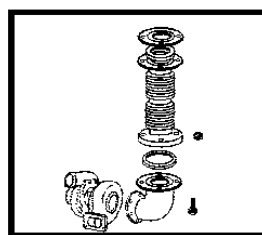
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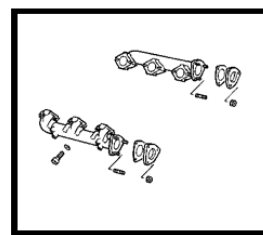
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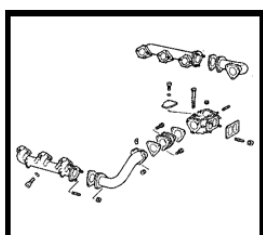
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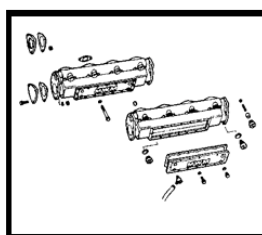
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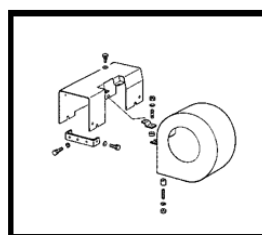
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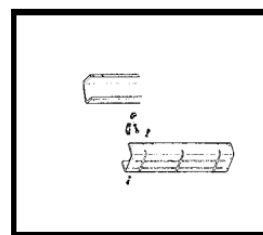
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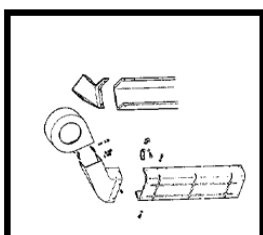
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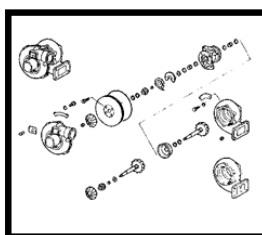
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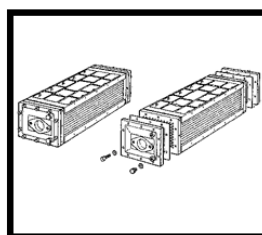
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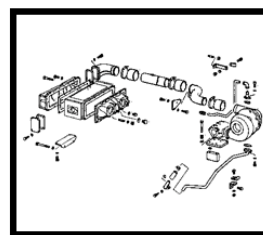
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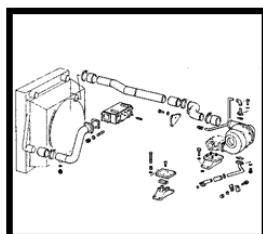
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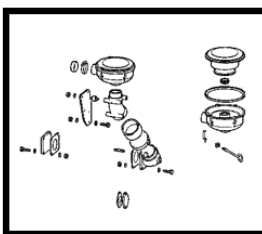
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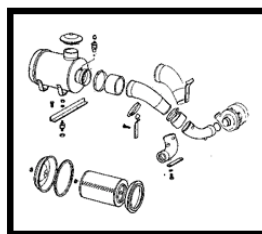
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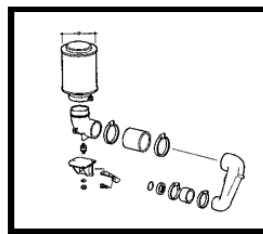
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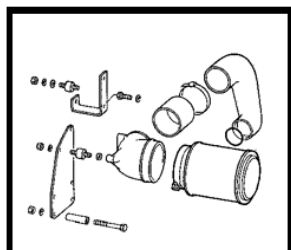
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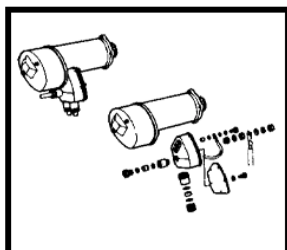
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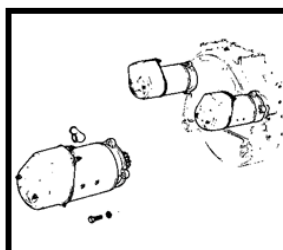
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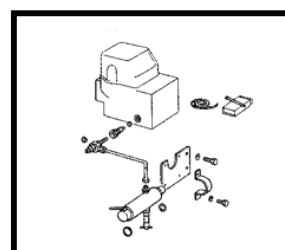
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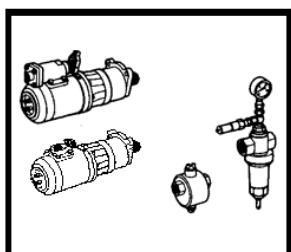
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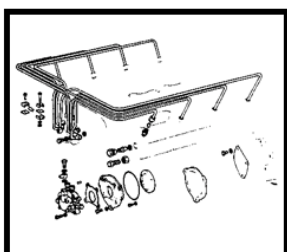
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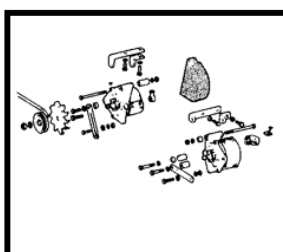
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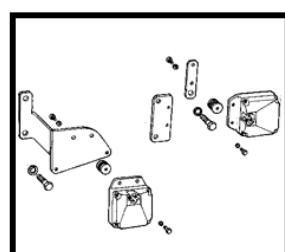
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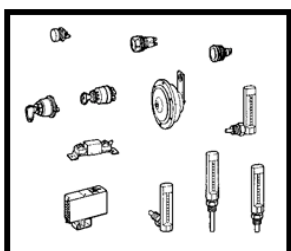
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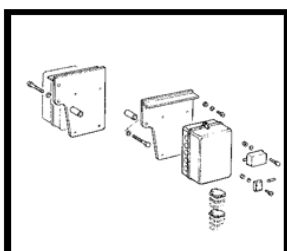
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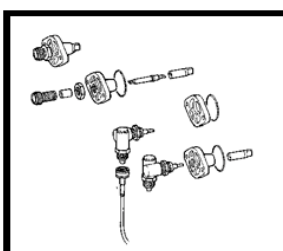
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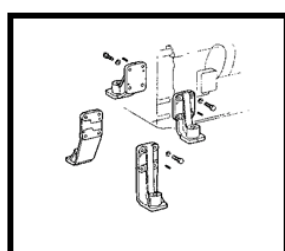
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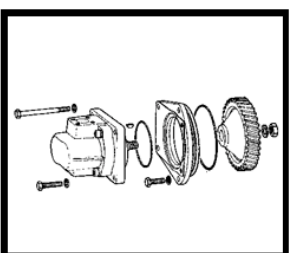
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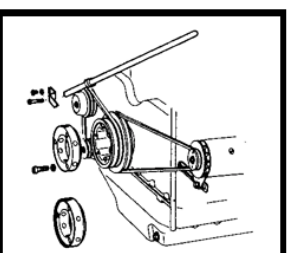
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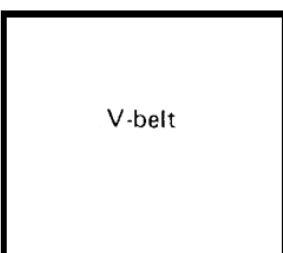
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93-

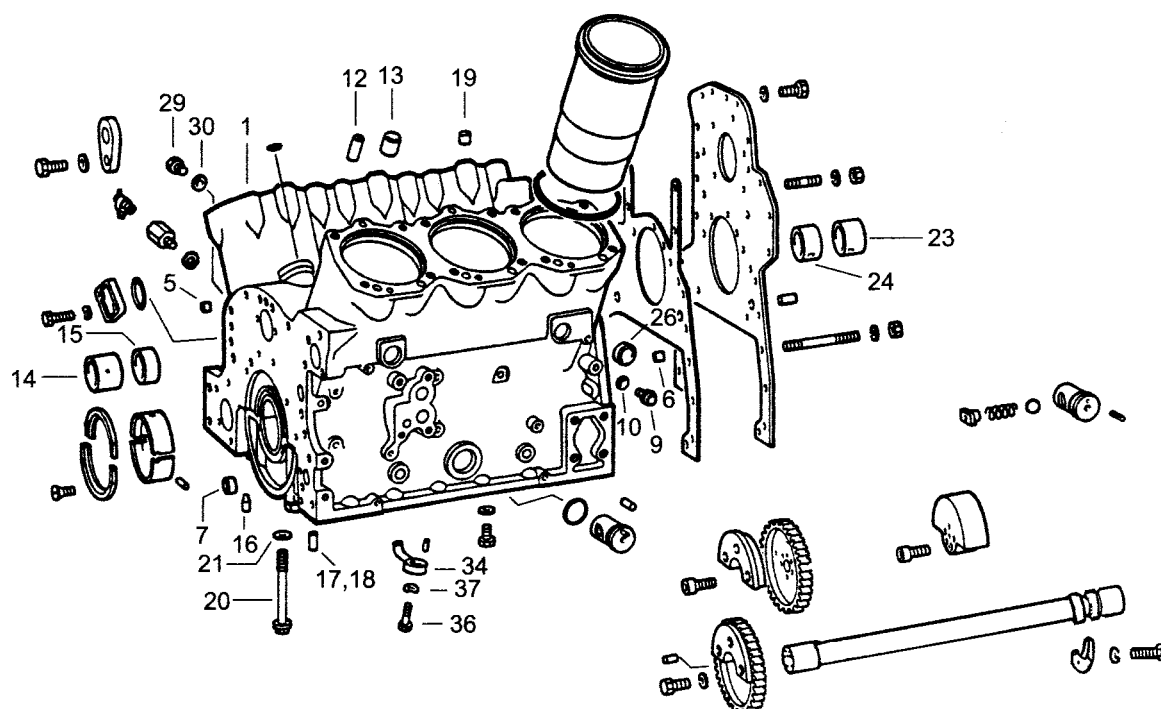


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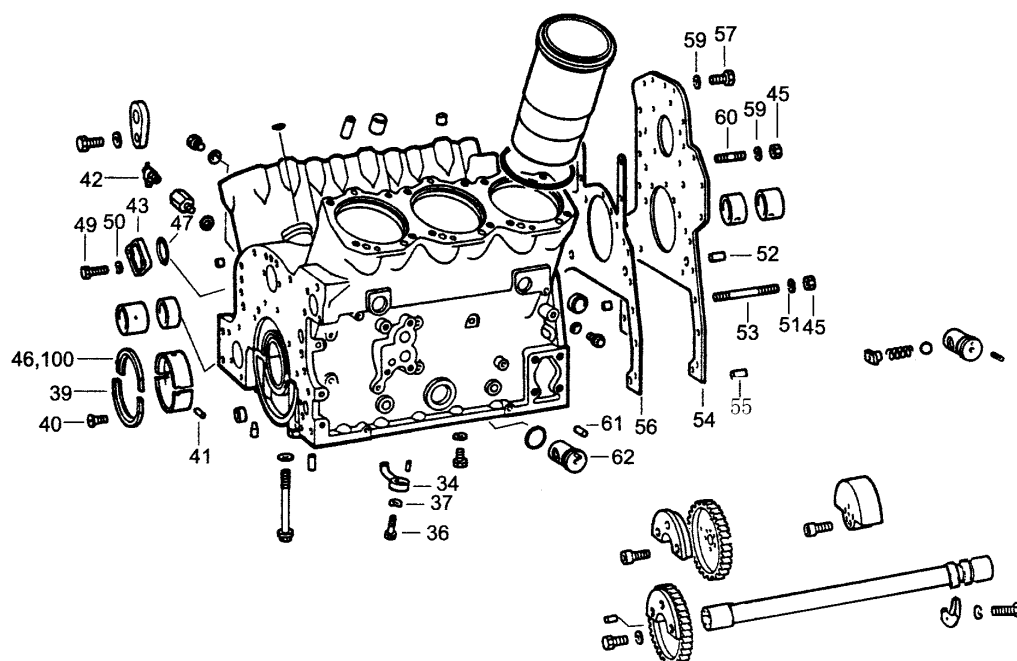


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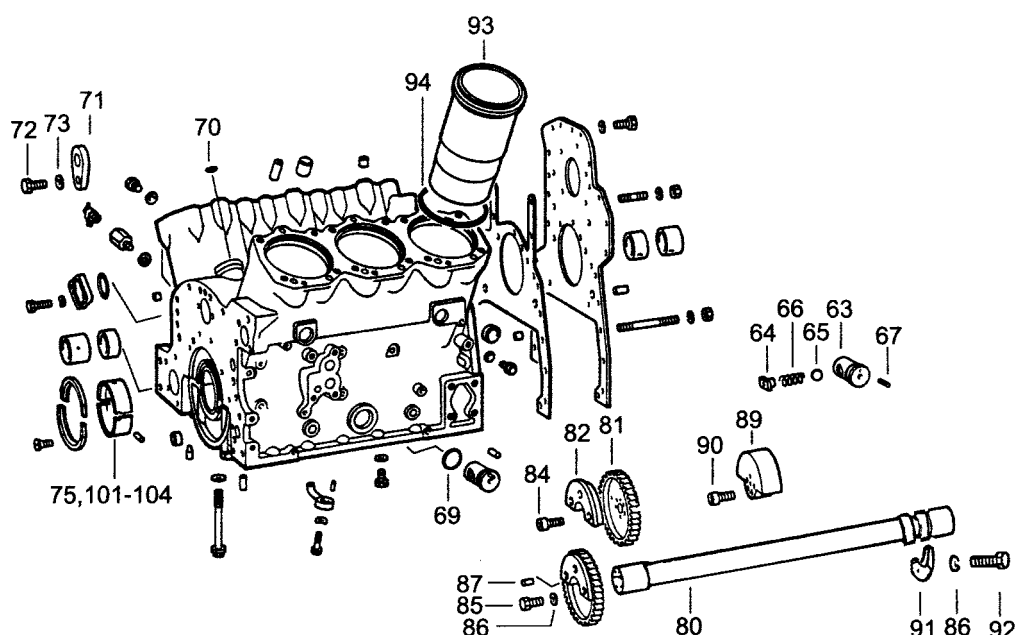
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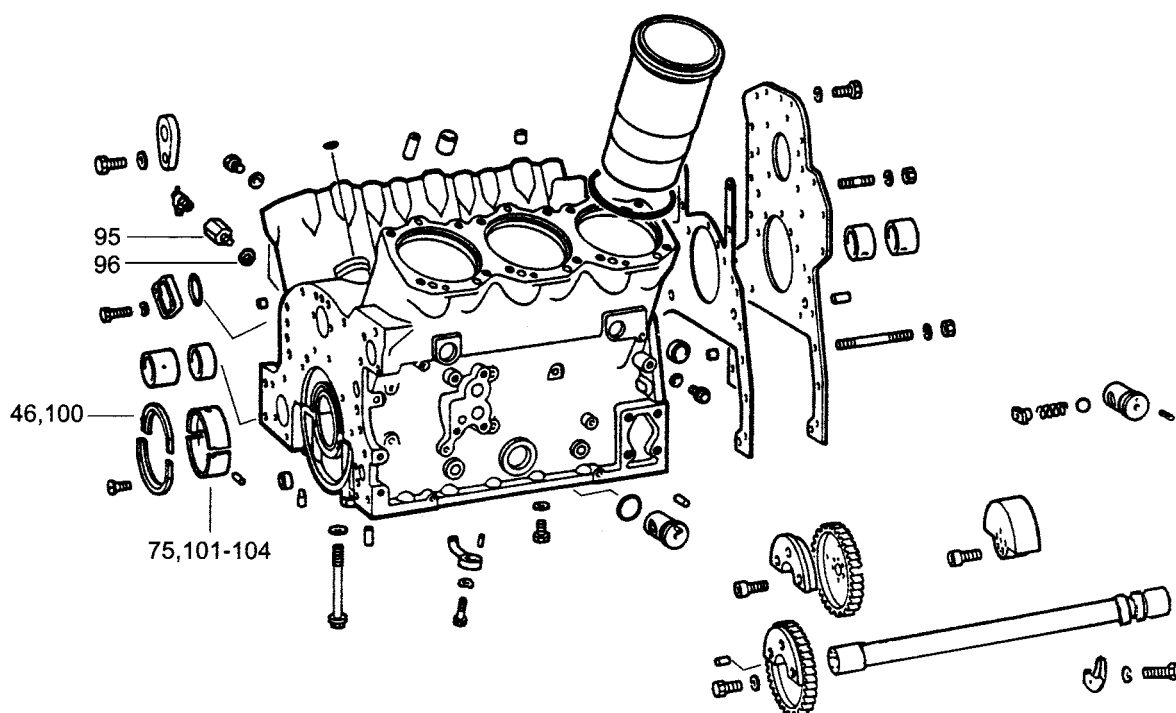
| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|----------------------|--|----------|
| 1 | 6.234.0.110.063.7 | | Cylinder crankcase, compl. consist of fig. No. 5-41, 93, 94 | 1 |
| 5 | 6.205.1.327.001.4 | Φ 10mm | Plug | 2 |
| 6 | 6.324.1.327.002.4 | Φ 14mm | Plug | 4 |
| 7 | 6.0215.21.8.0025 | 25DIN443 | Cap | 5 |
| 9 | 6.0206.05.0.1010 | AM10× 1DIN7604-5.8 | Screw plug | 1 |
| 10 | 6.0492.01.0.1014 | A10× 14DIN7603-Cu | Packing ring | 1 |
| 12 | 6.232.0.330.014.4 | | Sleeve | 12 |
| 13 | 6.234.0.330.011.4 | | Sleeve | 12 |
| 14 | 6.232.0.432.007.4 | | Bearing bush | 1 |
| 15 | 6.232.0.432.006.4 | | Bearing bush | 1 |
| 16 | 6.232.0.310.001.4 | | Straight pin | 4 |
| 17 | 6.232.0.310.002.4 | | Straight pin | 3 |
| 18 | 6.232.0.310.003.4 | | Straight pin | 1 |
| 19 | 6.232.0.330.022.4 | | Bush | 1 |
| 20 | 6.0200.01.8.1856 | BM18× 165DIN931-12.9 | Hexagon screw | 16 |
| 21 | 6.0215.06.1.1851 | | Washer | 16 |
| 23 | 6.234.0.432.002.2 | | Bearing bush | 2 |
| 24 | 6.234.0.432.001.2 | | Bearing bush | 2 |
| 26 | 6.0215.21.8.0030 | 30DIN443 | Cap | 4 |
| 29 | 6.0206.05.0.1215 | AM12× 1.5DIN7604-5.8 | Screw plug | 1 |
| 30 | 6.0492.01.0.1218 | A12× 18DIN7603-Cu | Packing ring | 1 |
| | 6.324.1.327.001.4 | | Plug | 4 |



| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|-----------------------|---|----------|
| 34 | 6.234.0.465.001.5 | | Nozzle for cooling oil | 6 |
| 36 | 6.0200.01.0.0845 | M8× 45DIN931-8.8 | Hexagon screw | 6 |
| 37 | 6.0216.03.1.0080 | B8 DIN137 | Spring washer | 6 |
| 39 | 6.234.0.340.001.4 | | Ring half | 2 |
| 40 | 6.0203.21.0.0612 | AM6× 12 DIN963-5.8 | Countersunk screw | 4 |
| 41 | 6.0220.15.0.0408 | 4× 8 DIN1481 | Clamping sleeve | 4 |
| 42 | 6.0452.04.8.0014 | CM14× 1.5keg DIN71401 | Exhaust valve | 1 |
| 43 | 6.234.0.950.019.4 | | Cover | 1 |
| 45 | 6.0210.05.4.0080 | M8 DIN934m-10 | Hexagon nut | 14 |
| 46 | 6.234.0.340.002.4 | | Ring half (Series) | 2 |
| 47 | 6.0493.10.4.0554 | | Round packing ring | 1 |
| 49 | 6.0200.05.0.0825 | M8× 25 DIN933-8.8 | Hexagon screw | 2 |
| 50 | 6.0216.03.1.0080 | B8 DIN137 | Spring ring | 2 |
| 51 | 6.0216.01.0.0080 | B8 DIN127 | Spring ring | 5 |
| 52 | 6.0220.10.0.1024 | 10m6× 24 DIN7 | Straight pin | 4 |
| 53 | 6.0201.10.1.0811 | M8× 110 DIN939-5.8 | Stud | 4 |
| 54 | 6.232.0.788.002.4 | | Cover plate | 1 |
| 55 | 6.0220.15.0.0620 | | Straight pin | 2 |
| 56 | 6.232.0.853.015.4 | | Shaped gasket | 1 |
| 57 | 6.0200.05.0.0820 | M8× 20 DIN933-8.8 | Hexagon screw | 14 |
| 59 | 6.0216.01.0.0080 | B8 DIN27 | Spring ring | 9 |
| 60 | 4.234.0.355.750.4 | M18× 25-10.9 | Stud | 5 |
| 61 | 6.0220.10.0.1024 | 10m6× 24 DIN7 | Straight pin | 2 |
| 62 | 6.234.0.767.001.6 | | Overflow valve, compl. consist of fig. No. 63-67 | 1 |



| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|--------------------|-----------------------------------|----------|
| 63 | 6.234.0.346.001.4 | | Valve insert | 1 |
| 64 | 6.234.0.342.002.4 | | Spring plate | 1 |
| 65 | 6.0325.11.0.0024 | 3/4III DIN5401 | Ball | 1 |
| 66 | 6.0240.19.0.1110 | | Pressure spring | 1 |
| 67 | 6.0220.15.0.0416 | 4× 16 DIN1481 | Clamping sleeve | 1 |
| 69 | 6.0493.13.0.3501 | 35× 4 | Round packing ring | 1 |
| 70 | 6.0493.13.0.1401 | 14× 3 | Round packing ring | 12 |
| 71 | 6.234.0.637.011.4 | | Bracket | 2 |
| 72 | 6.0200.05.0.2040 | M20× 40 DIN933-8.8 | Hexagon screw | 2 |
| 73 | 6.0215.01.2.0210 | 21 DIN125-V2A | Washer | 2 |
| 75 | 6.234.0.430.001.7 | | Main bearing bush, compl. (Serie) | 4 |
| 80 | 6.234.0.300.002.5 | | Shaft | 1 |
| 81 | 6.234.0.371.007.4 | | Front gear wheel | 1 |
| 82 | 6.232.0.671.002.4 | | Counter weight | 1 |
| 84 | 6.0200.70.0.0830 | M8× 30 DIN91210.9 | Cheese head screw | 3 |
| 85 | 6.0200.05.0.0820 | M8× 20 DIN933-8.8 | Hexagon screw | 5 |
| 86 | 6.0216.01.0.0080 | B8 DIN127 | Spring ring | 12 |
| 87 | 6.0220.15.0.0614 | 6× 14 DIN1481 | Clamping sleeve | 2 |
| 89 | 6.234.0.671.001.4 | | Counter weight | 1 |
| 90 | 6.0200.05.0.0825 | M8× 25 DIN933-8.8 | Hexagon screw | 5 |
| 91 | 6.234.0.673.002.4 | | Segment | 1 |
| 92 | 6.0200.01.0.0850 | M8× 50 DIN931-8.8 | Hexagon screw | 2 |
| 93 | 6.234.0.132.002.4 | | Cylinder liner | 6 |
| 94 | 6.0493.13.1.4202 | 142× 4.5 DIN3770 | Round packing ring | 12 |

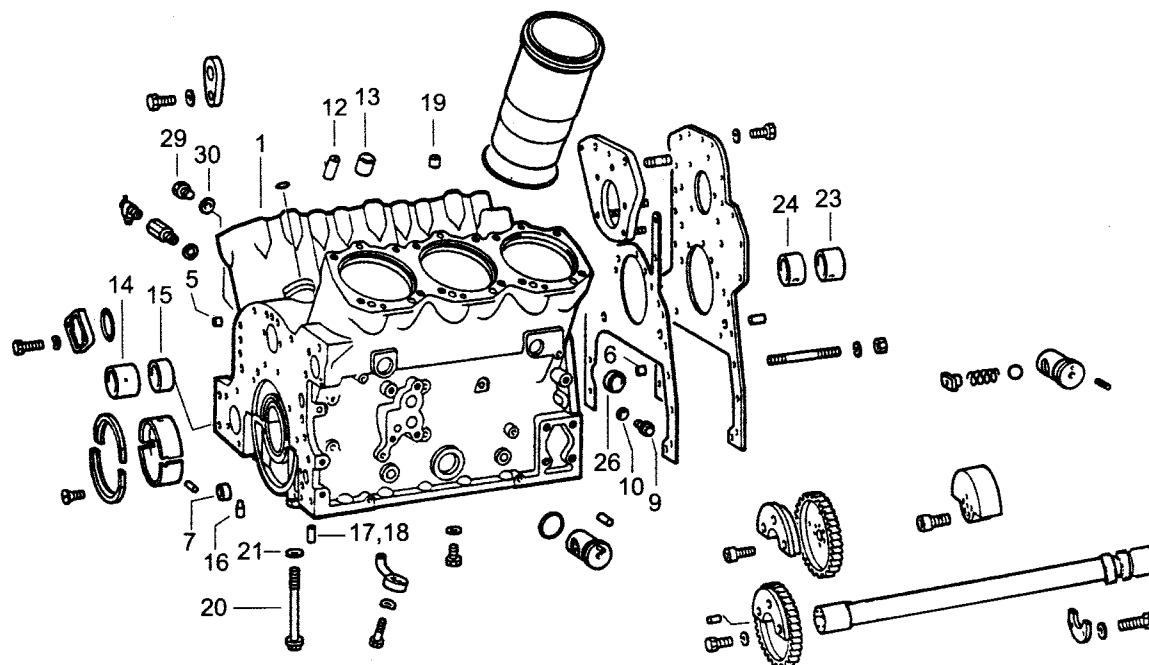


| Drawing No | Specification | Denomination | Quantity |
|-----------------------|--------------------|---|----------|
| 95 6.232.0.355.015.4 | | Screw socket | 1 |
| 96 6.0492.01.0.1418 | A14× 18 DIN7603-Cu | Packing ring | 2 |
| 100 6.234.8.340.002.4 | | Ring half | 2 |
| 101 6.234.8.430.003.7 | 104.692-104.714mm | Main bearing bush, compl. Repair stage I | 4 |
| 102 6.234.8.430.005.7 | 104.442-104.464mm | Main bearing bush, compl. Repair stage II | 4 |
| 103 6.234.8.430.007.7 | 104.192-104.214mm | Main bearing bush, compl. Repair stage III | 4 |
| 104 6.234.8.430.009.7 | 103.942-103.964mm | Main bearing bush, compl. Repair stage IV | 4 |

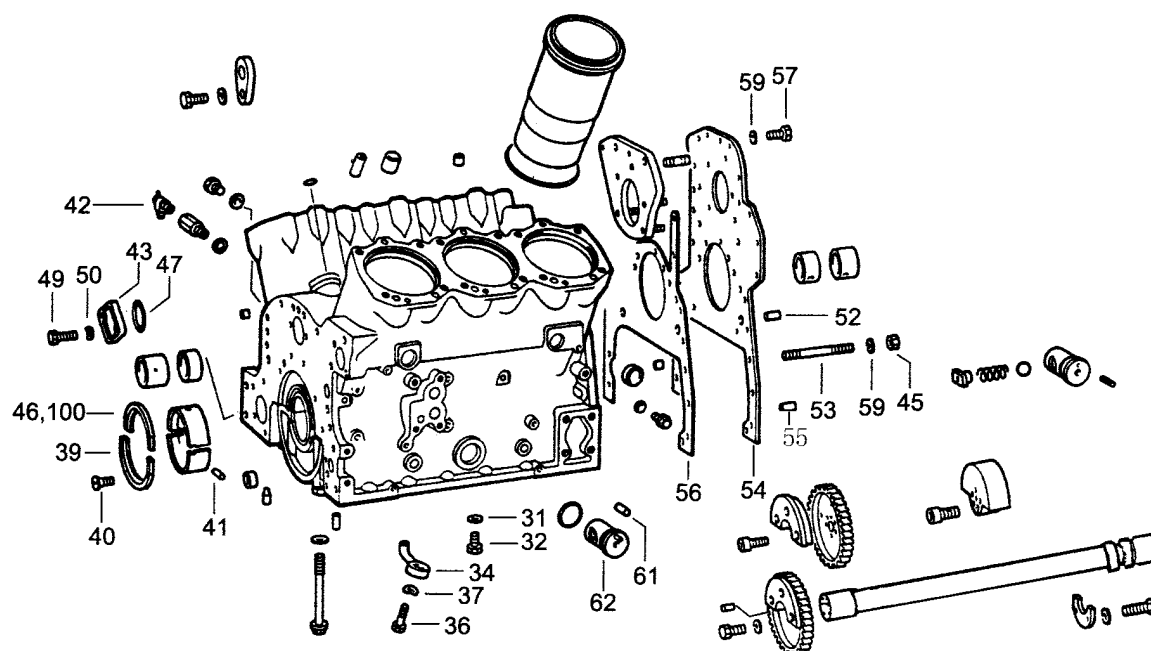
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Crankcase

Page 1 of 4



| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|----------------------|--|----------|
| 1 | 6.234.0.110.063.7 | | Cylinder crankcase, compl. consist of fig. No. 5-41, 93, 94 | 1 |
| 5 | 6.205.1.327.001.4 | Φ 10mm | Plug | 6 |
| 6 | 6.324.1.327.002.4 | Φ 14mm | Plug | 4 |
| 7 | 6.0215.21.8.0025 | 25 DIN443 | Cap | 6 |
| 9 | 6.0206.05.0.1010 | AM10× 1DIN7604-5.8 | Screw plug | 3 |
| 10 | 6.0492.01.0.1014 | A10× 14DIN7603-Cu | Packing ring | 3 |
| 12 | 6.232.0.330.014.4 | | Sleeve | 12 |
| 13 | 6.234.0.330.011.4 | | Sleeve | 12 |
| 14 | 6.232.0.432.007.4 | | Bearing bush | 1 |
| 15 | 6.232.0.432.006.4 | | Bearing bush | 1 |
| 16 | 6.232.0.310.001.4 | | Straight pin | 4 |
| 17 | 6.232.0.310.002.4 | | Straight pin | 3 |
| 18 | 6.232.0.310.003.4 | | Straight pin | 1 |
| 19 | 6.232.0.330.022.4 | | Bush | 1 |
| 20 | 6.0200.01.8.1856 | BM18× 165DIN931-12.9 | Hexagon screw | 16 |
| 21 | 6.0215.06.1.1851 | | Washer | 16 |
| 23 | 6.234.0.432.002.2 | | Bearing bush | 2 |
| 24 | 6.234.0.432.001.2 | | Bearing bush | 2 |
| 26 | 6.0215.21.8.0030 | 30DIN443 | Cap | 4 |
| 29 | 6.0206.05.0.1215 | AM12× 1.5DIN7604-5.8 | Screw plug | 1 |
| 30 | 6.0492.01.0.1218 | A12× 18DIN7603-Cu | Packing ring | 1 |

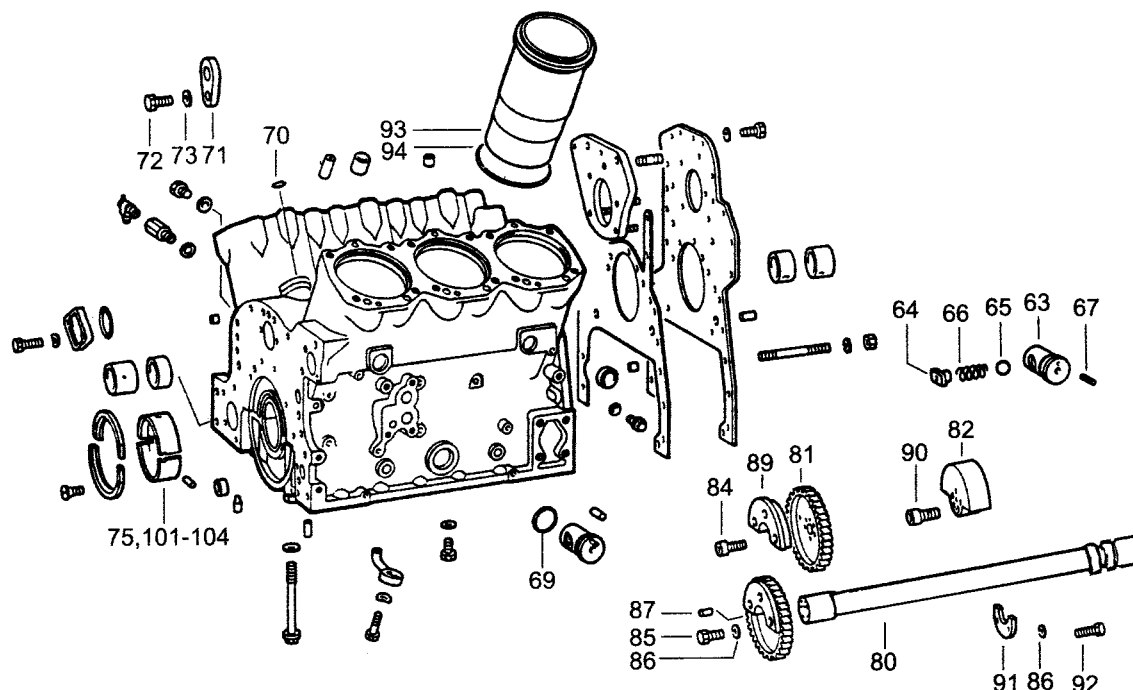


| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|-----------------------|---|----------|
| 31 | 6.330.0.340.001.4 | | Washer | 1 |
| 32 | 6.0200.05.0.0815 | M8× 16 DIN933-8.8 | Hexagon screw | 1 |
| 34 | 6.234.0.465.001.5 | | Nozzle for cooling oil | 6 |
| 36 | 6.0200.01.0.0845 | M8× 45DIN931-8.8 | Hexagon screw | 6 |
| 37 | 6.0216.03.1.0080 | B8 DIN137 | Spring washer | 6 |
| 39 | 6.234.0.340.001.4 | | Ring half | 2 |
| 40 | 6.0203.21.0.0612 | AM6× 12 DIN963-5.8 | Countersunk screw | 4 |
| 41 | 6.0220.15.0.0408 | 4× 8 DIN1481 | Clamping sleeve | 4 |
| 42 | 6.0452.04.8.0014 | CM14× 1.5keg DIN71401 | Exhaust valve | 1 |
| 43 | 6.234.0.950.019.4 | | Cover | 1 |
| 45 | 6.0210.05.4.0080 | M8 DIN934m-10 | Hexagon nut | 4 |
| 46 | 6.234.0.340.002.4 | | Ring half (Series) | 2 |
| 47 | 6.0493.10.4.0554 | | Round packing ring | 1 |
| 49 | 6.0200.05.0.0825 | M8× 25 DIN933-8.8 | Hexagon screw | 2 |
| 50 | 6.0216.03.1.0080 | B8 DIN137 | Spring washer | 2 |
| 52 | 6.0220.10.0.1024 | 10m6× 24 DIN7 | Straight pin | 4 |
| 53 | 6.0201.10.1.0811 | M8× 110 DIN939-5.8 | Stud | 4 |
| 54 | 6.232.0.788.036.4 | | Cover plate | 1 |
| 55 | 6.0220.15.0.0620 | | Straight pin | 2 |
| 56 | 6.232.0.853.015.4 | | Shaped gasket | 1 |
| 57 | 6.0200.05.0.0820 | M8× 20 DIN933-8.8 | Hexagon screw | 9 |
| 59 | 6.0216.01.0.0080 | B8 DIN27 | Spring ring | 9 |
| 61 | 6.0220.10.0.1024 | 10m6× 24 DIN7 | Straight pin | 2 |
| 62 | 6.234.0.767.001.6 | | Overflow valve, compl. consist of fig. No. 63-67 | 1 |

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TBD 6

Crankcase

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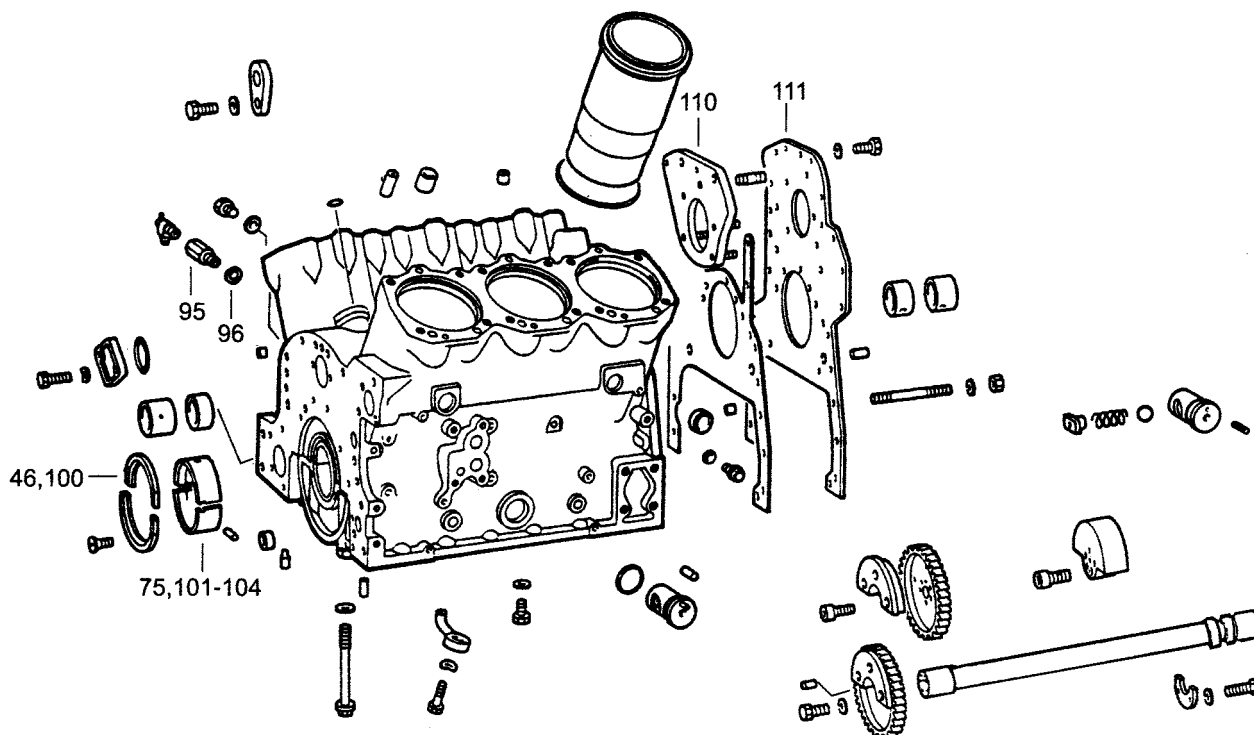
| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|--------------------|-----------------------------------|----------|
| 63 | 6.234.0.346.001.4 | | Valve insert | 1 |
| 64 | 6.234.0.342.002.4 | | Spring plate | 1 |
| 65 | 6.0325.11.0.0024 | 3/4III DIN5401 | Ball | 1 |
| 66 | 6.0240.19.0.1110 | | Pressure spring | 1 |
| 67 | 6.0220.15.0.0416 | 4× 16 DIN1481 | Clamping sleeve | 1 |
| 69 | 6.0493.13.0.3501 | 35× 4 | Round packing ring | 1 |
| 70 | 6.0493.13.0.1401 | 14× 3 | Round packing ring | 12 |
| 71 | 6.234.0.637.011.4 | | Bracket | 2 |
| 72 | 6.0200.05.0.2040 | M20× 40 DIN933-8.8 | Hexagon screw | 2 |
| 73 | 6.0215.01.2.0210 | 21 DIN125-V2A | Washer | 2 |
| 75 | 6.234.0.430.001.7 | | Main bearing bush, compl. (Serie) | 4 |
| 80 | 6.234.0.300.002.5 | | Shaft | 1 |
| 81 | 6.234.0.371.007.4 | | Front gear sheel | 1 |
| 82 | 6.234.0.671.001.4 | | Counter weight | 1 |
| 84 | 6.0200.70.0.0830 | M8× 30 DIN91210.9 | Cheese head screw | 3 |
| 85 | 6.0200.05.0.0820 | M8× 20 DIN933-8.8 | Hexagon screw | 5 |
| 86 | 6.0216.01.0.0080 | B8 DIN127 | Spring ring | 12 |
| 87 | 6.0220.15.0.0614 | 6× 14 DIN1481 | Clamping sleeve | 2 |
| 89 | 6.232.0.671.002.4 | | Counter weight | 1 |
| 90 | 6.0200.05.0.0825 | M8× 25 DIN933-8.8 | Hexagon screw | 5 |
| 91 | 6.234.0.673.002.4 | | Segment | 1 |
| 92 | 6.0200.01.0.0850 | M8× 50 DIN931-8.8 | Hexagon screw | 2 |
| 93 | 6.234.0.132.002.4 | | Cylinder liner | 6 |
| 94 | 6.0493.13.1.4202 | 142× 4.5 DIN3770 | Round packing ring | 12 |

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TBD 6

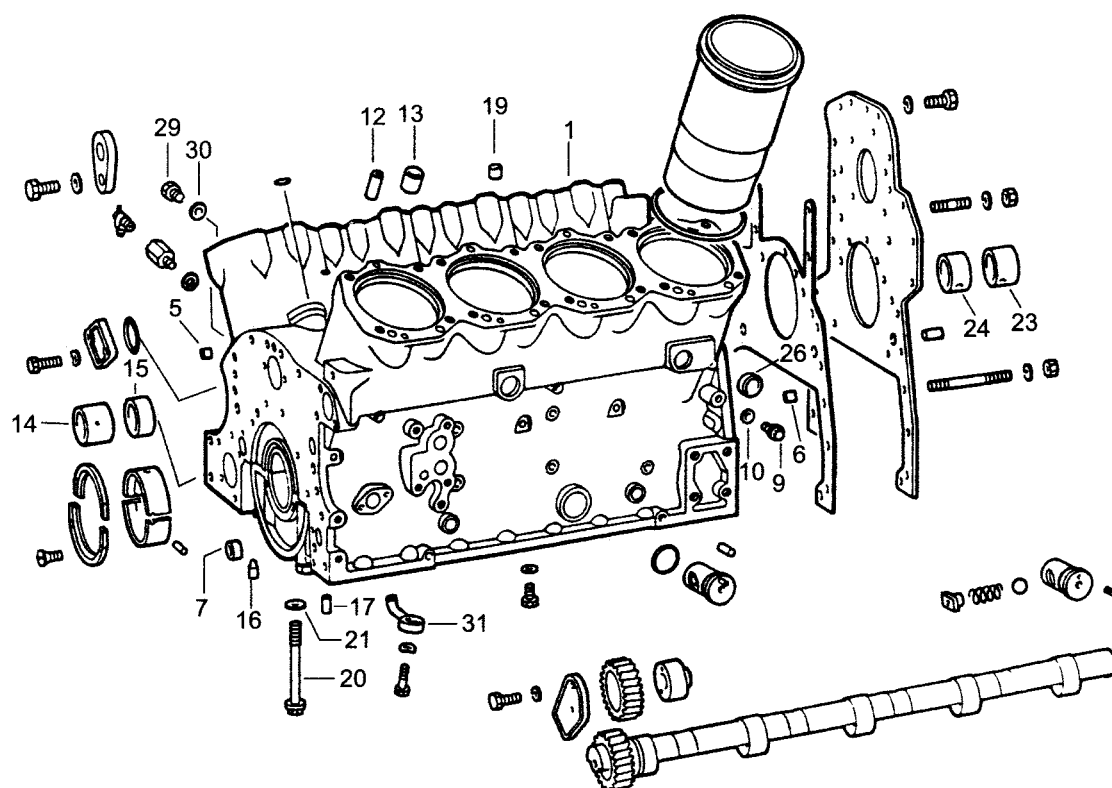
01-3425A

Crankcase

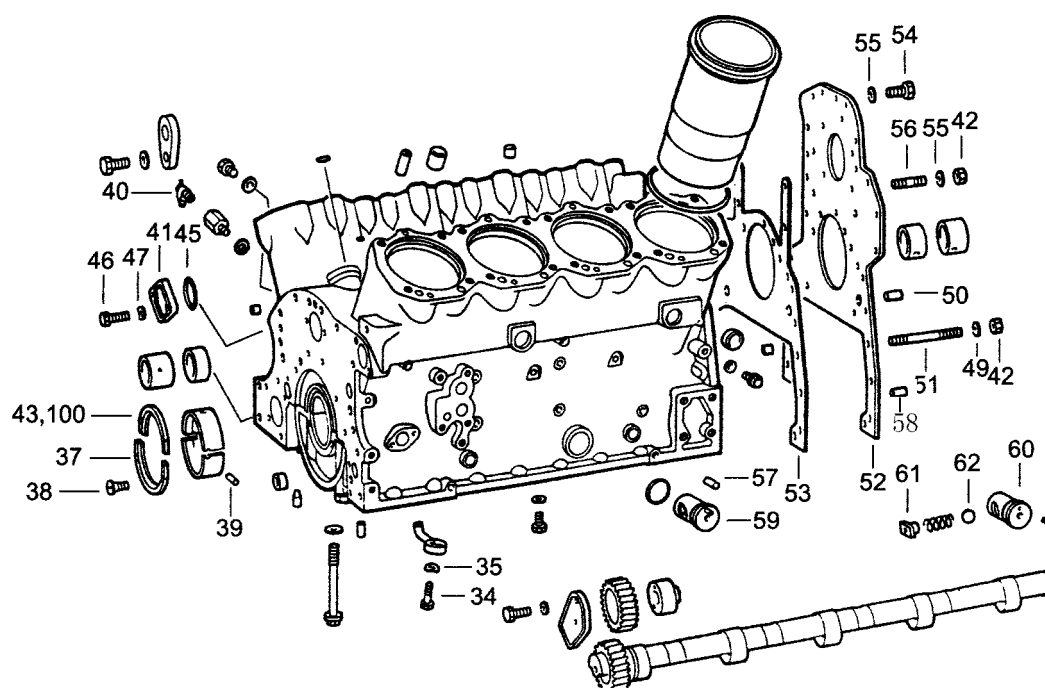
Page 4 of 4



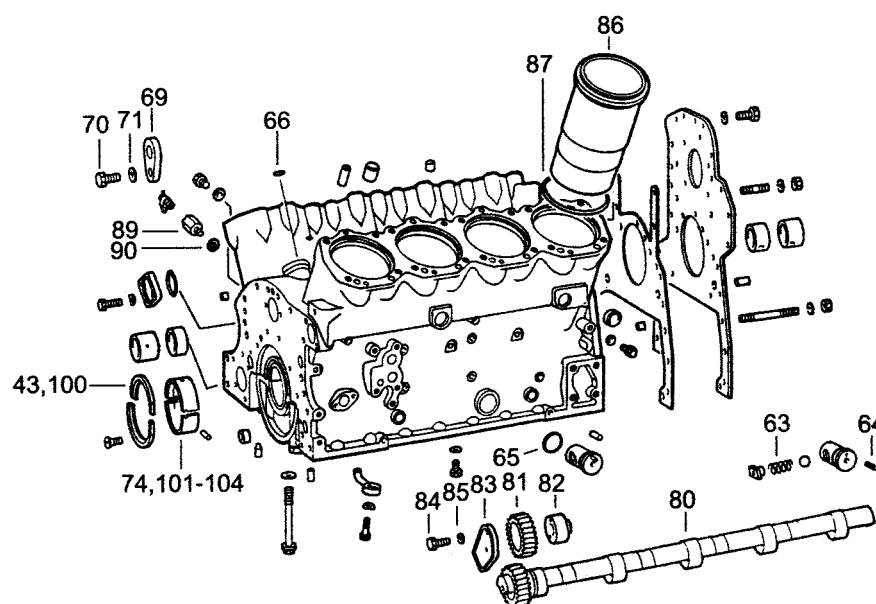
| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|---------------------|---|----------|
| 95 | 6.232.0.355.015.4 | | Screw socket | 1 |
| 96 | 6.0492.01.0.1418 | A14× 18 DIN7603-Cu | Packing ring | 2 |
| 100 | 6.234.8.340.002.4 | | Ring half | 2 |
| 101 | 6.234.8.430.003.7 | 104.692-104.714mm | Main bearing bush, compl. Repair stage I | 4 |
| 102 | 6.234.8.430.005.7 | 104.442-104.464mm | Main bearing bush, compl. Repair stage II | 4 |
| 103 | 6.234.8.430.007.7 | 104.192-104.214mm | Main bearing bush, compl. Repair stage III | 4 |
| 104 | 6.234.8.430.009.7 | 103.942-103.964mm | Main bearing bush, compl. Repair stage IV | 4 |
| 110 | 6.234.0.788.037.5 | | Plate, with fig. No. 111 | 1 |
| 111 | 6.0201.10.4.1235 | M12× 35 DIN939-12.9 | Stud | 5 |



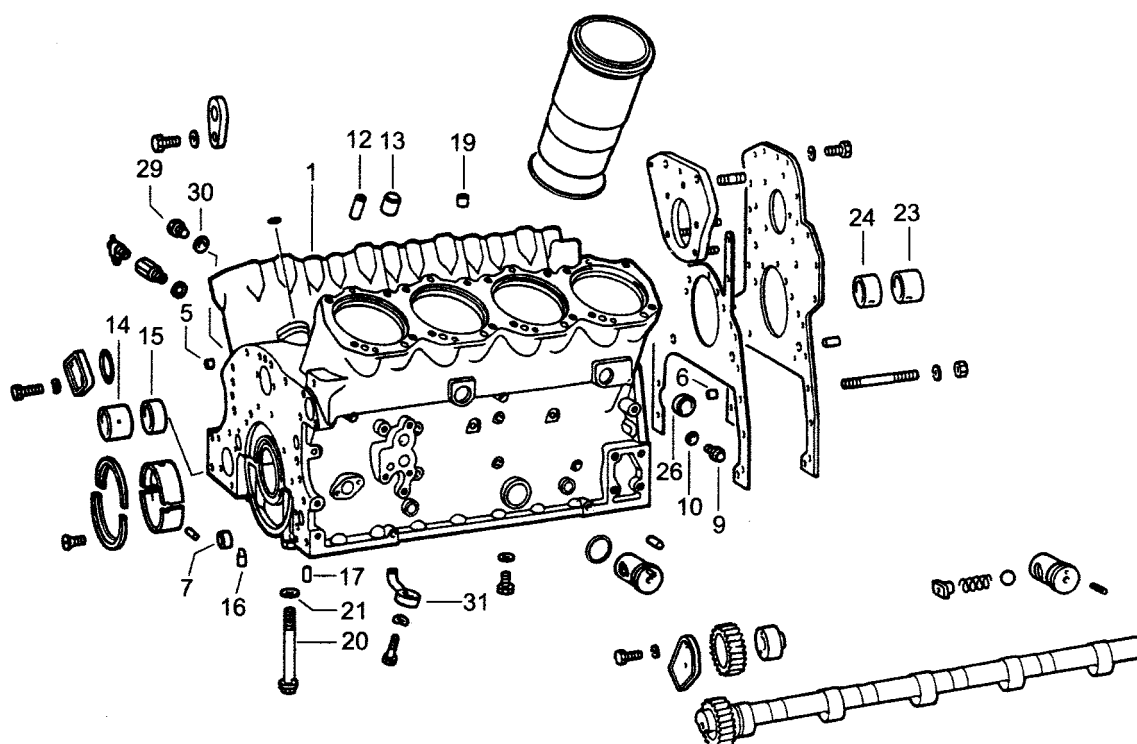
| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|----------------------|--|----------|
| 1 | 6.234.0.110.064.7 | | Cylinder crankcase, compl. consist of fig. No. 5-39, 86, 87 | 1 |
| 5 | 6.205.1.327.001.4 | Φ 10mm | Plug | 2 |
| 6 | 6.324.1.327.002.4 | Φ 14mm | Plug | 4 |
| 7 | 6.0215.21.8.0025 | 25DIN443 | Cap | 6 |
| 9 | 6.0206.05.0.1010 | AM10× 1DIN7604-5.8 | Screw plug | 3 |
| 10 | 6.0492.01.0.1014 | A10× 14DIN7603-Cu | Packing ring | 3 |
| 12 | 6.232.0.330.014.4 | | Sleeve | 16 |
| 13 | 6.234.0.330.011.4 | | Sleeve | 16 |
| 14 | 6.232.0.432.005.4 | | Bearing bush | 1 |
| 15 | 6.232.0.432.004.4 | | Bearing bush | 4 |
| 16 | 6.232.0.310.001.4 | | Straight pin | 5 |
| 17 | 6.232.0.310.002.4 | | Straight pin | 5 |
| 19 | 6.232.0.330.022.4 | | Bush | 1 |
| 20 | 6.0200.01.8.1856 | BM18× 165DIN931-12.9 | Hexagon screw | 20 |
| 21 | 6.0215.06.1.1851 | | Washer | 20 |
| 23 | 6.234.0.432.002.2 | | Bearing bush | 2 |
| 24 | 6.234.0.432.001.2 | | Bearing bush | 3 |
| 26 | 6.0215.21.8.0030 | 30DIN443 | Cap | 4 |
| 29 | 6.0206.05.0.1215 | AM12× 1.5DIN7604-5.8 | Screw plug | 1 |
| 30 | 6.0492.01.0.1218 | A12× 18DIN7603-Cu | Packing ring | 1 |
| 31 | 6.234.0.465.001.5 | | Nozzle cooling oil | 8 |
| 32 | 6.324.1.327.001.4 | | Plug | 4 |



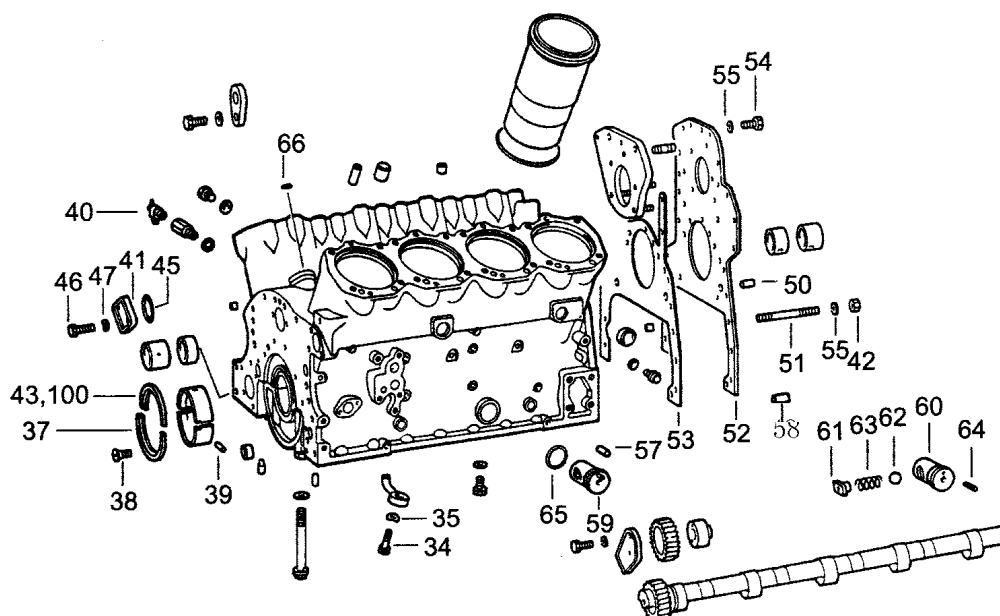
| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|-----------------------|---|----------|
| 34 | 6.0200.01.0.0845 | M8× 45DIN931-8.8 | Hexagon screw | 8 |
| 35 | 6.0216.03.1.0080 | B8 DIN137 | Spring washer | 6 |
| 37 | 6.234.0.340.001.4 | | Ring half | 2 |
| 38 | 6.0203.21.0.0612 | AM6× 12 DIN963-5.8 | Countersunk screw | 4 |
| 39 | 6.0220.15.0.0408 | 4× 8 DIN1481 | Clamping sleeve | 4 |
| 40 | 6.0452.04.8.0014 | CM14× 1.5keg DIN71401 | Exhaust valve | 1 |
| 41 | 6.234.0.950.019.4 | | Cover | 1 |
| 42 | 6.0210.05.4.0080 | M8 DIN934m-10 | Hexagon nut | 14 |
| 43 | 6.234.0.340.002.4 | | Ring half (Series) | 2 |
| 45 | 6.0493.10.4.0554 | | Round packing ring | 1 |
| 46 | 6.0200.05.0.0825 | M8× 25 DIN933-8.8 | Hexagon screw | 2 |
| 47 | 6.0216.03.1.0080 | B8 DIN137 | Spring ring | 2 |
| 49 | 6.0216.01.0.0080 | B8 DIN127 | Spring ring | 5 |
| 50 | 6.0220.10.0.1024 | 10m6× 24 DIN7 | Straight pin | 4 |
| 51 | 6.0201.10.1.0811 | M8× 110 DIN939-5.8 | Stud | 4 |
| 52 | 6.232.0.788.002.4 | | Cover plate | 1 |
| 53 | 6.232.0.853.015.4 | | Shaped gasket | |
| 54 | 6.0200.05.0.0820 | M8× 20 DIN933-8.8 | Hexagon screw | 14 |
| 55 | 6.0216.01.0.0080 | B8 DIN27 | Spring ring | 9 |
| 56 | 4.234.0.355.750.4 | | Stud | 1 |
| 57 | 6.0220.10.0.1024 | 10m6× 24 DIN7 | Straight pin | |
| 58 | 6.0220.15.0.0620 | | Straight pin | 2 |
| 59 | 6.234.0.767.001.6 | | Overflow valve, compl. consist of fig. No. 60-64 | |
| 60 | 6.234.0.346.001.4 | | Valve insert | 1 |
| 61 | 6.234.0.342.002.4 | | Spring plate | |
| 62 | 6.0325.11.0.0024 | 3/4III DIN5401 | Ball | |



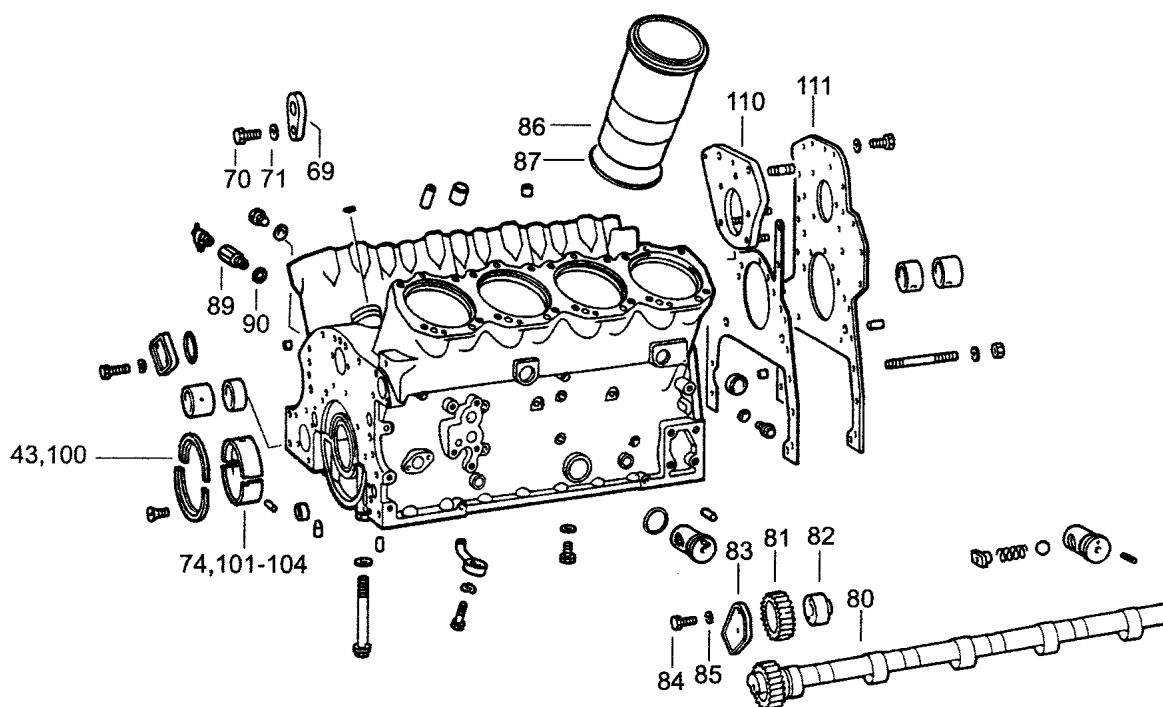
| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|--------------------|--|----------|
| 63 | 6.0240.19.0.1110 | | Pressure spring | 1 |
| 64 | 6.0220.15.0.0416 | 4× 16 DIN1481 | Clamping sleeve | 1 |
| 65 | 6.0493.13.0.3501 | 35× 4 | Round packing ring | 1 |
| 66 | 6.0493.13.0.1401 | 14× 3 | Round packing ring | 16 |
| 69 | 6.234.0.637.011.4 | | Bracket | 2 |
| 70 | 6.0200.05.0.2040 | M20× 40 DIN933-8.8 | Hexagon screw | 2 |
| 71 | 6.0215.01.2.0210 | 21 DIN125-V2A | Washer | 2 |
| 74 | 6.234.0.430.001.7 | | Main bearing bush, compl. (Serie) | 5 |
| 80A | 6.234.0.300.010.4 | | Shaft (for dry type oil pan) | 1 |
| 80 | 6.234.0.300.004.5 | | Shaft | 1 |
| 81 | 6.232.0.371.013.5 | | Front gear wheel | 1 |
| 82 | 6.232.0.310.005.4 | | Journal | 1 |
| 83 | 6.232.0.680.001.4 | | Stop piece | 1 |
| 84 | 6.0200.01.0.0845 | M8× 45 DIN931-8.8 | Hexagon screw | 2 |
| 85 | 6.0216.01.0.0080 | B8 DIN127 | Spring ring | 2 |
| 86 | 6.234.0.132.002.4 | | Cylinder liner | 8 |
| 87 | 6.0493.13.1.4202 | 142× 4.5 DIN3770 | Round packing ring | 16 |
| 89 | 6.232.0.355.015.4 | | Screw socket | 1 |
| 90 | 6.0492.01.0.1418 | A14× 18 DIN7603-Cu | Packing ring | 2 |
| 100 | 6.234.8.340.002.4 | | Ring half | 2 |
| 101 | 6.234.8.430.003.7 | 104.692-104.714mm | Main bearing bush, compl. Repair stage I | 5 |
| 102 | 6.234.8.430.005.7 | 104.442-104.464mm | Main bearing bush, compl. Repair stage II | 5 |
| 103 | 6.234.8.430.007.7 | 104.192-104.214mm | Main bearing bush, compl. Repair stage III | 5 |
| 104 | 6.234.8.430.009.7 | 103.942-103.964mm | Main bearing bush, compl. Repair stage IV | 5 |



| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|----------------------|--|----------|
| 1 | 6.234.0.110.064.7 | | Cylinder crankcase, compl. consist of fig. No. 5-39, 86, 87 | 1 |
| 5 | 6.205.1.327.001.4 | Φ 10mm | Plug | 9 |
| 6 | 6.324.1.327.002.4 | Φ 14mm | Plug | 4 |
| 7 | 6.0215.21.8.0025 | 25DIN443 | Cap | 6 |
| 9 | 6.0206.05.0.1010 | AM10× 1DIN7604-5.8 | Screw plug | 3 |
| 10 | 6.0492.01.0.1014 | A10× 14DIN7603-Cu | Packing ring | 3 |
| 12 | 6.232.0.330.014.4 | | Sleeve | 16 |
| 13 | 6.234.0.330.011.4 | | Sleeve | 16 |
| 14 | 6.232.0.432.005.4 | | Bearing bush | 1 |
| 15 | 6.232.0.432.004.4 | | Bearing bush | 4 |
| 16 | 6.232.0.310.001.4 | | Straight pin | 5 |
| 17 | 6.232.0.310.002.4 | | Straight pin | 5 |
| 19 | 6.232.0.330.022.4 | | Bush | 1 |
| 20 | 6.0200.01.8.1856 | BM18× 165DIN931-12.9 | Hexagon screw | 20 |
| 21 | 6.0215.06.1.1851 | | Washer | 20 |
| 23 | 6.234.0.432.002.2 | | Bearing bush | 2 |
| 24 | 6.234.0.432.001.2 | | Bearing bush | 3 |
| 26 | 6.0215.21.8.0030 | 30DIN443 | Cap | 4 |
| 29 | 6.0206.05.0.1215 | AM12× 1.5DIN7604-5.8 | Screw plug | 1 |
| 30 | 6.0492.01.0.1218 | A12× 18DIN7603-Cu | Packing ring | 1 |
| 31 | 6.234.0.465.001.5 | | Nozzle cooling oil | 8 |
| 34 | 6.0200.01.0.0845 | M8× 45DIN931-8.8 | Hexagon screw | 8 |
| 35 | 6.0216.03.1.0080 | B8 DIN137 | Spring washer | 6 |
| 37 | 6.234.0.340.001.4 | | Ring half | 2 |



| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|-----------------------|---|----------|
| 38 | 6.0203.21.0.0612 | AM6× 12 DIN963-5.8 | Countersunk screw | 4 |
| 39 | 6.0220.15.0.0408 | 4× 8 DIN1481 | Clamping sleeve | 5 |
| 40 | 6.0452.04.8.0014 | CM14× 1.5keg DIN71401 | Exhaust valve | 1 |
| 41 | 6.234.0.950.019.4 | | Cover | 1 |
| 42 | 6.0210.05.4.0080 | M8 DIN934m-10 | Hexagon nut | 4 |
| 43 | 6.234.0.340.002.4 | | Ring half (Series) | 2 |
| 45 | 6.0493.10.4.0554 | | Round packing ring | 1 |
| 46 | 6.0200.05.0.0825 | M8× 25 DIN933-8.8 | Hexagon screw | 2 |
| 47 | 6.0216.03.1.0080 | B8 DIN137 | Spring washer | 2 |
| 50 | 6.0220.10.0.1024 | 10m6× 24 DIN7 | Straight pin | 4 |
| 51 | 6.0201.10.1.0811 | M8× 110 DIN939-5.8 | Stud | 4 |
| 52 | 6.234.0.788.036.4 | | Cover plate | 1 |
| 53 | 6.232.0.853.015.4 | | Shaped gasket | 1 |
| 54 | 6.0200.05.0.0820 | M8× 20 DIN933-8.8 | Hexagon screw | 9 |
| 55 | 6.0216.01.0.0080 | B8 DIN27 | Spring ring | 10 |
| 57 | 6.0220.10.0.1024 | 10m6× 24 DIN7 | Straight pin | 2 |
| 58 | 6.0220.15.0.0620 | | Straight pin | 2 |
| 59 | 6.234.0.767.001.6 | | Overflow valve, compl. consist of fig. No. 60-64 | 1 |
| 60 | 6.234.0.346.001.4 | | Valve insert | 1 |
| 61 | 6.234.0.342.002.4 | | Spring plate | 1 |
| 62 | 6.0325.11.0.0024 | 3/4III DIN5401 | Ball | 1 |
| 63 | 6.0240.19.0.1110 | | Pressure spring | 1 |
| 64 | 6.0220.15.0.0416 | 4× 16 DIN1481 | Clamping sleeve | 1 |
| 65 | 6.0493.13.0.3501 | 35× 4 | Round packing ring | 1 |
| 66 | 6.0493.13.0.1401 | 14× 3 | Round packing ring | 16 |



| S/N | Drawing No | Specification | Denomination | Quantity |
|-----|-------------------|---------------------|---|----------|
| 69 | 6.234.0.637.011.4 | | Bracket | 2 |
| 70 | 6.0200.05.0.2040 | M20× 40 DIN933-8.8 | Hexagon screw | 2 |
| 71 | 6.0215.01.2.0210 | 21 DIN125-V2A | Washer | 2 |
| 74 | 6.234.0.430.001.7 | | Main bearing bush, compl. (Serie) | 5 |
| 80A | 6.234.0.300.010.4 | | Shaft (for dry type oil pan) | 1 |
| 80 | 6.234.0.300.004.5 | | Shaft | 1 |
| 81 | 6.232.0.371.013.5 | | Front gear wheel | 1 |
| 82 | 6.232.0.310.005.4 | | Journal | 1 |
| 83 | 6.232.0.680.001.4 | | Stop piece | 1 |
| 84 | 6.0200.01.0.0845 | M8× 45 DIN931-8.8 | Hexagon screw | 2 |
| 85 | 6.0216.01.0.0080 | B8 DIN127 | Spring ring | 2 |
| 86 | 6.234.0.132.002.4 | | Cylinder liner | 8 |
| 87 | 6.0493.13.1.4202 | 142× 4.5 DIN3770 | Round packing ring | 16 |
| 89 | 6.232.0.355.015.4 | | Screw socket | 1 |
| 90 | 6.0492.01.0.1418 | A14× 18 DIN7603-Cu | Packing ring | 2 |
| 100 | 6.234.0.340.002.4 | | Ring half | 2 |
| 101 | 6.234.8.430.003.7 | 104.692-104.714mm | Main bearing bush, compl. Repair stage I | 5 |
| 102 | 6.234.8.430.005.7 | 104.442-104.464mm | Main bearing bush, compl. Repair stage II | 5 |
| 103 | 6.234.8.430.007.7 | 104.192-104.214mm | Main bearing bush, compl. Repair stage III | 5 |
| 104 | 6.234.8.430.009.7 | 103.942-103.964mm | Main bearing bush, compl. Repair stage IV | 5 |
| 110 | 6.234.0.788.037.5 | | Plate, with fig. No. 111 | 1 |
| 111 | 6.0201.10.4.1235 | M12× 35 DIN939-12.9 | Stud | 5 |