

Catalogue

WÄRTSILÄ

D604B



Document	Catalogue
Engine type	TBD604BL6
Engine no.	13232

Document file no. ----- **Date** January 2010

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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

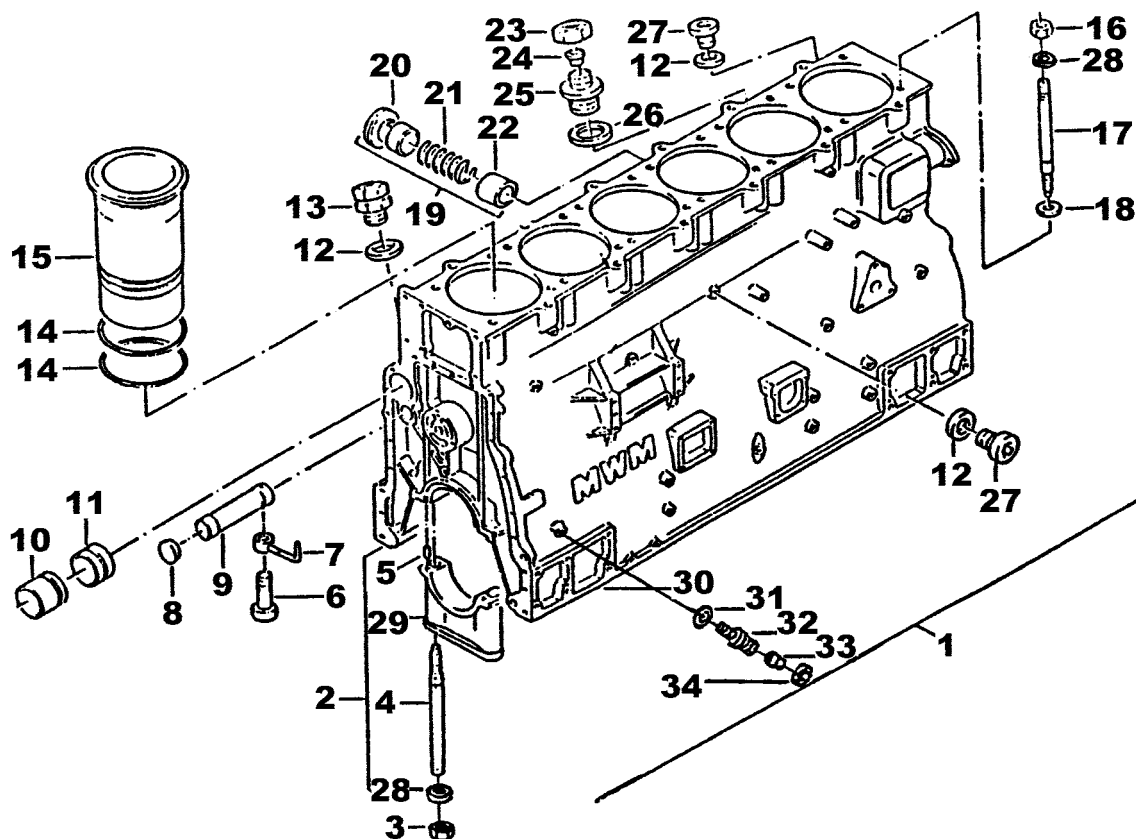
CONTENTS

- 01 Crankcase, intermediate plate, Crankcase front cover, Crankcase front cover, Engine lifting device, Crankcase venting device, filler pipe, Oil separator, Cover, Intermediate gear wheel
- 02 Oil dipstick ,Oil pan
- 03 Crankshaft,Flywheel with Gear rim,Flywheel flange,Accessories for crankshaft
- 06 Accessories for connecting rod,Connecting rod
- 07 Piston
- 08 Push-rod covering,Cover,Accessories cylinder head,Water transfer connection on cylinder head, Plugs,Throttle plate control,Regulator,Cylinder head
- 10 Camshaft
- 11 Rocket arm bracket,Valve drive,Valve bridge
- 14 Gear-type oil pump,Fastening for oil pump
- 15 Oil twin filter,Centrifugal oil purifier,Plugs,Oil cooler
- 16 Oil inlet and outlet line,Oil line for oil cooler,Oil pipe rode,Oil pipe for racer arm,Lube oil hand pump, Oil pipe for fuel injection pump,Oil intake line,Lube oil pipe
- 17 Gearbox,Holder for injection pump,Injection pump,Fastenings for injection pump,Fuel pipe
- 18 Coupling,Drive,Idler gear
- 19 Injector,Fastening for injector
- 20 Fuel filter,Holder for fuel filter,Part of fuel duplex filter
- 21 Fuel pipe,Fuel pipe
- 22 Air intake,Dry-air filter
- 27 PSG-governor,Speed regulates equipment,Clutch
- 29 Control mechanism
- 30 Air starting device,Cover instead of starting device,Cover instead of dynamo drive, Solenoid valve for compressed air starting,Accessories for starting pilot air distributor
- 34 Fastenning
- 36 Elbow connection heat exchanger,Heat exchanger,Flanger socket with by-pass line heat exchanger, Elbow connection for water pump,Retainer for heat exchanger
- 37 Sea water pump,Gasket for interim plate,Centifugal water pump,Accessories for centrifugal water pump
- 38 Rubber pipe,Water pipe,Retainer of water pipe,Thermostat,Cooling water outlet pipe,Elbow pipe for thermostat, Venting line,Retainer,Accessories for water pipe,Water pipe
- 41 Exhaust lines,Screen for exhaust lines,Protection screen for exhaust lines,Exhaust elbow,Compensator
- 43 Support of exhaust turbo-charger,Turbocharger,Support plate,Paneling,Single-parts for turbocharger
- 44 Air starter,Electric starter,Drive for dynamo,Holder for starter,Cover instead of dynamo drive,
- 46 Engine claw
- 49 Turning device
- 51 Tacho-meter drive,Transmitter claw
- 52 Free end output power
- 56 Stopping mechanism
- 57 Protection screen for vibration damper,V-belt guard,Guard
- 58 Charge air cooler,Retainer
- 87 Air intake pipe,Air guide, Leading the spirit equips

Crankcase

01 508 1155

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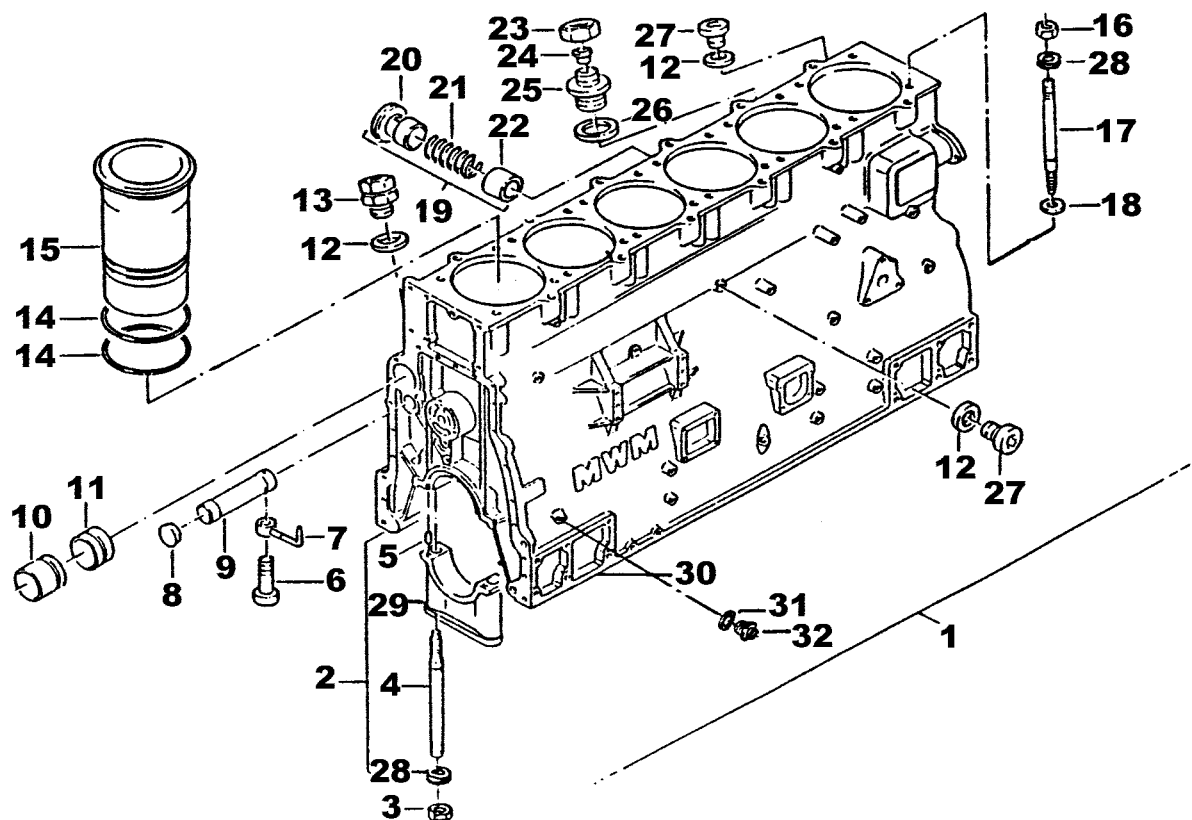


S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 2972		Crankcase	1
2	1203 2974		Crankcase	1
3	0117 6614	WN10073-M24×1.5	Hexagon nut	14
4	1203 2980	M24×2/M24×1.5-280	Stud	14
5	0110 5157	DIN7-Φ8m6×20	Parallel pin	14
6	0111 0618	DIN912-M8×80-10.9	Cheese head screw	6
7	1203 2981		Nozzle	6
8	0115 1199	DIN443-B40	Cover	2
9	1202 7238		Tube	6
10	1202 7573		Bearing bush	3
11	1202 7574		Bearing bush	4
12	0110 2146	DIN7603-A12×17-Cu	Sealing ring	8
13	0114 0557	DIN2353-CL8-ST	Screwed gland	5
14	1202 7235		O-ring	12
15	1213 5933		Cylinder liner	6
16	0117 6614	WN10073-M24×1.5	Hexagon nut	24
17	1213 3505		Stud	24
18	1203 2976		Main bearing cover	6
19	1212 9990		Pressure vavle	6
20	1212 9929		Screwed plug	1
21	1212 9931		Compression spring	1
22	1212 9930		Spring sleeve	1

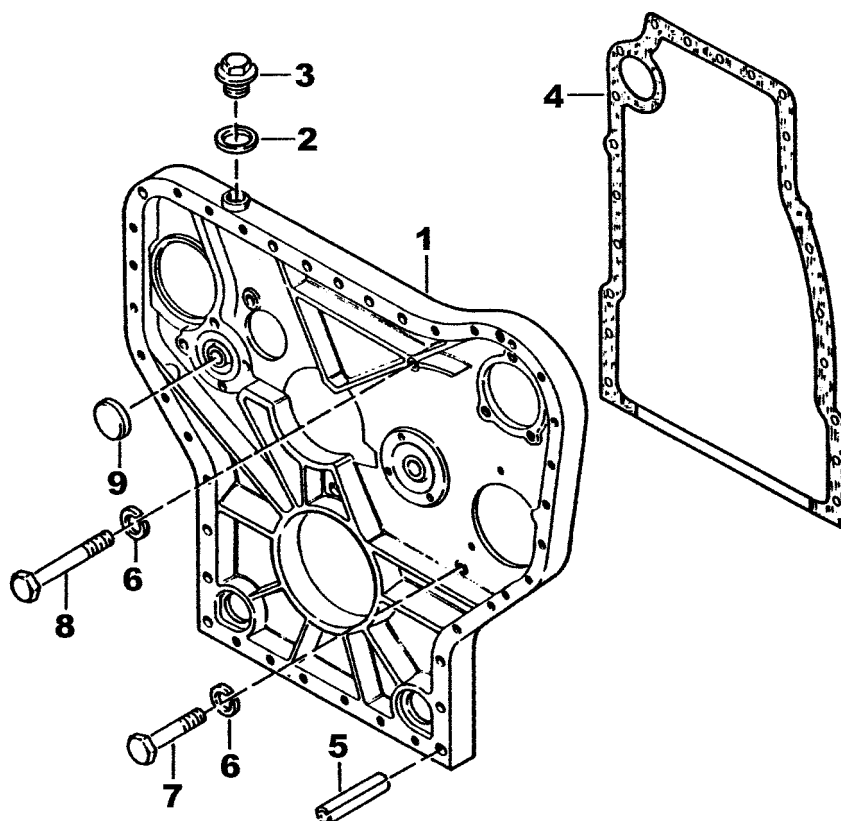
Crankcase

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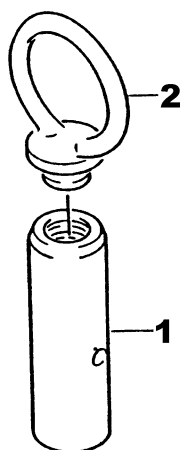
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S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 2972		Crankcase	1
2	1203 2974		Crankcase	1
3	0117 6614	WN10073-M24×1.5	Hexagon nut	14
4	1203 2980	M24×2/M24×1.5-280	Stud	14
5	0110 5157	DIN7-Φ8m6×20	Parallel pin	14
6	0111 0618	DIN912-M8×80-10.9	Cheese head screw	6
7	1203 2981		Nozzle	6
8	0115 1199	DIN443-B40	Cover	2
9	1202 7238		Tube	6
10	1202 7573		Bearing bush	3
11	1202 7574		Bearing bush	4
12	0110 2146	DIN7603-A12×17-Cu	Sealing ring	8
13	0114 0557	DIN2353-CL8-ST	Screwed gland	5
14	1202 7235		O-ring	12
15	1213 5933		Cylinder liner	6
16	0117 6614	WN10073-M24×1.5	Hexagon nut	24
17	1213 3505		Stud	24
18	1203 2976		Main bearing cover	6
19	1212 9990		Pressure vavle	6
20	1212 9929		Screwed plug	1
21	1212 9931		Compression spring	1
22	1212 9930		Spring sleeve	1

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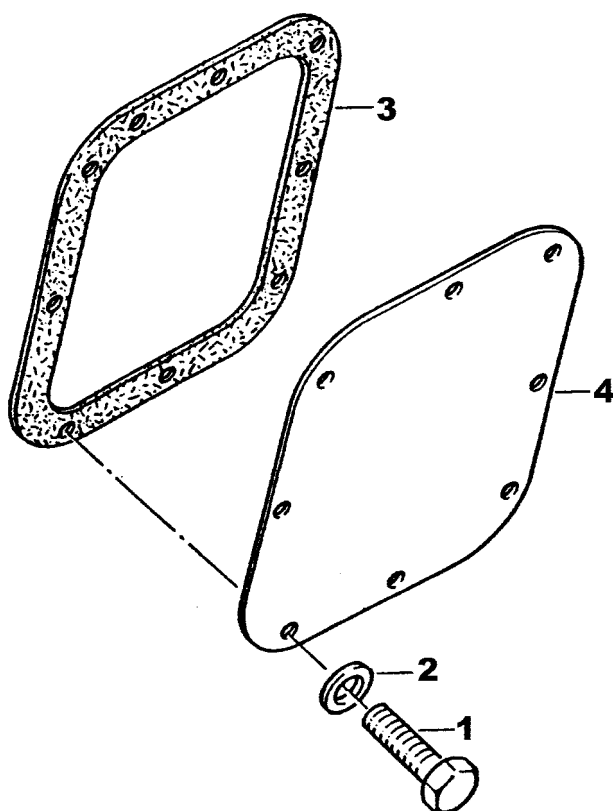
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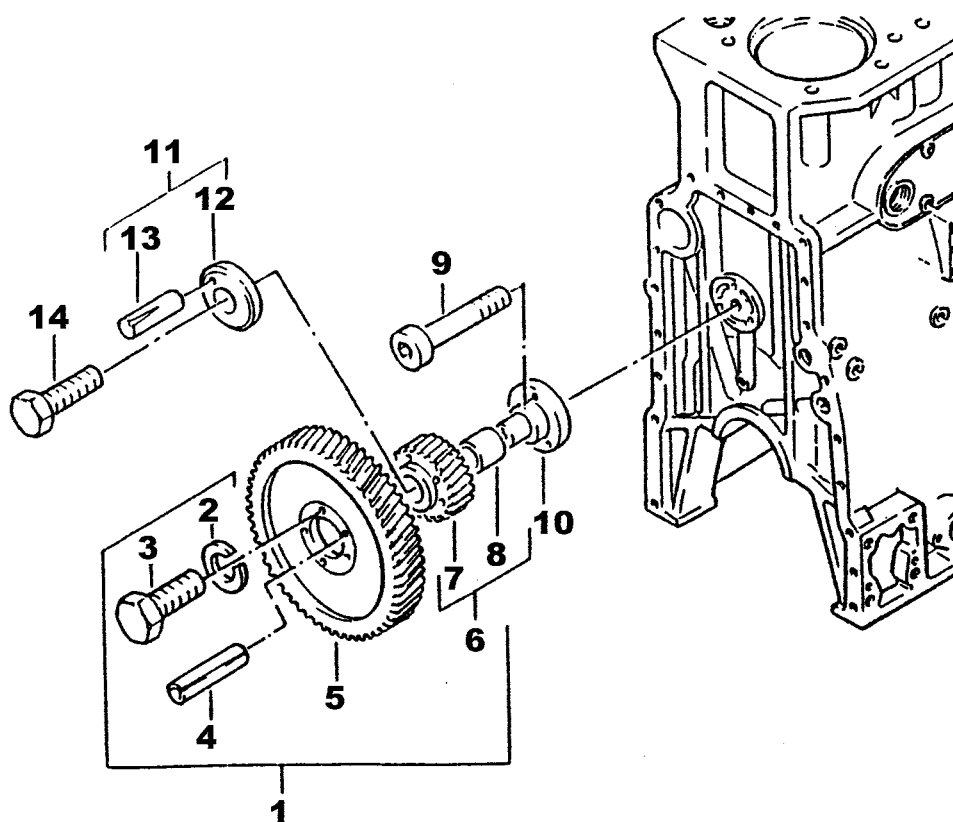
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Intermediate gear wheel

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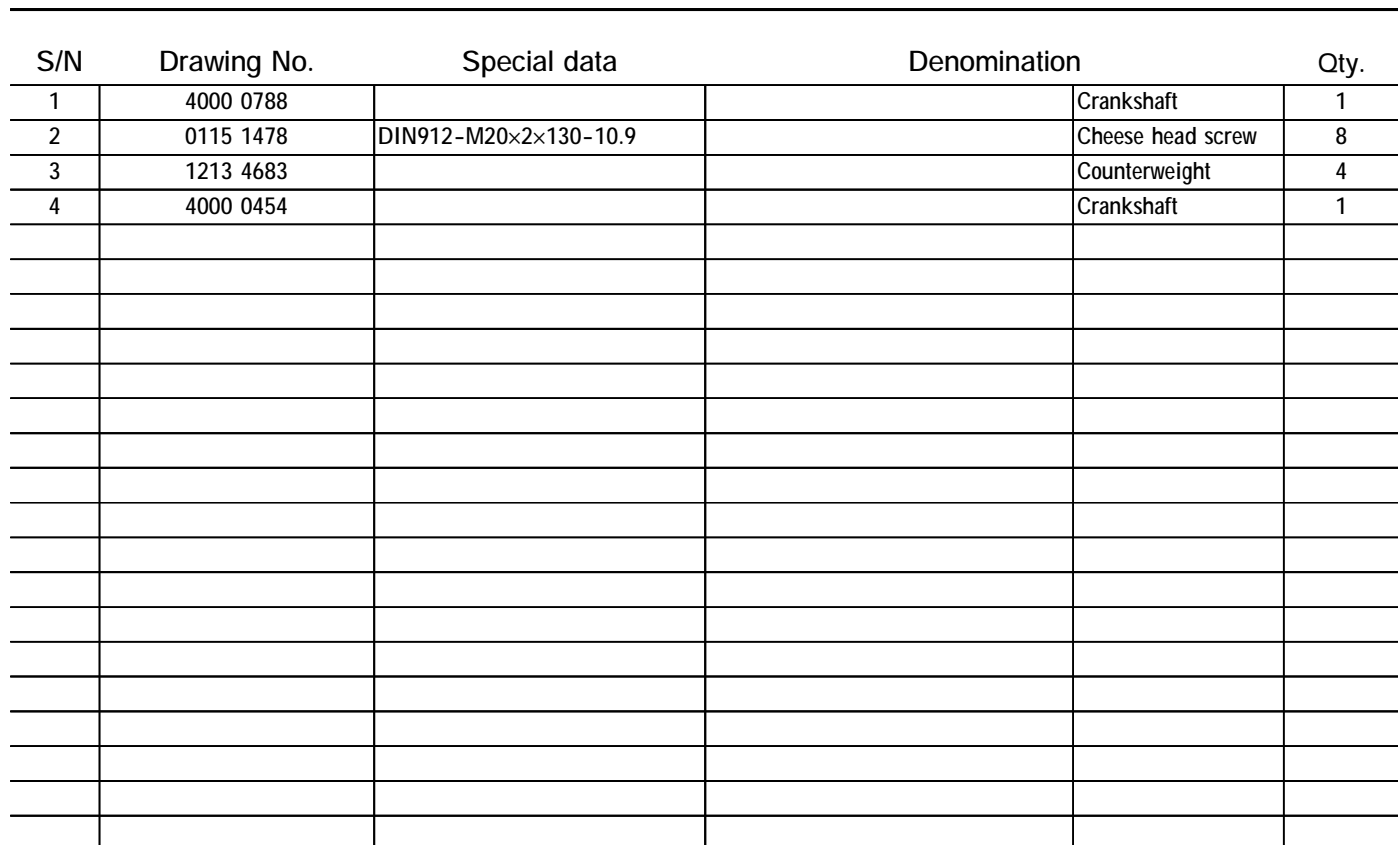
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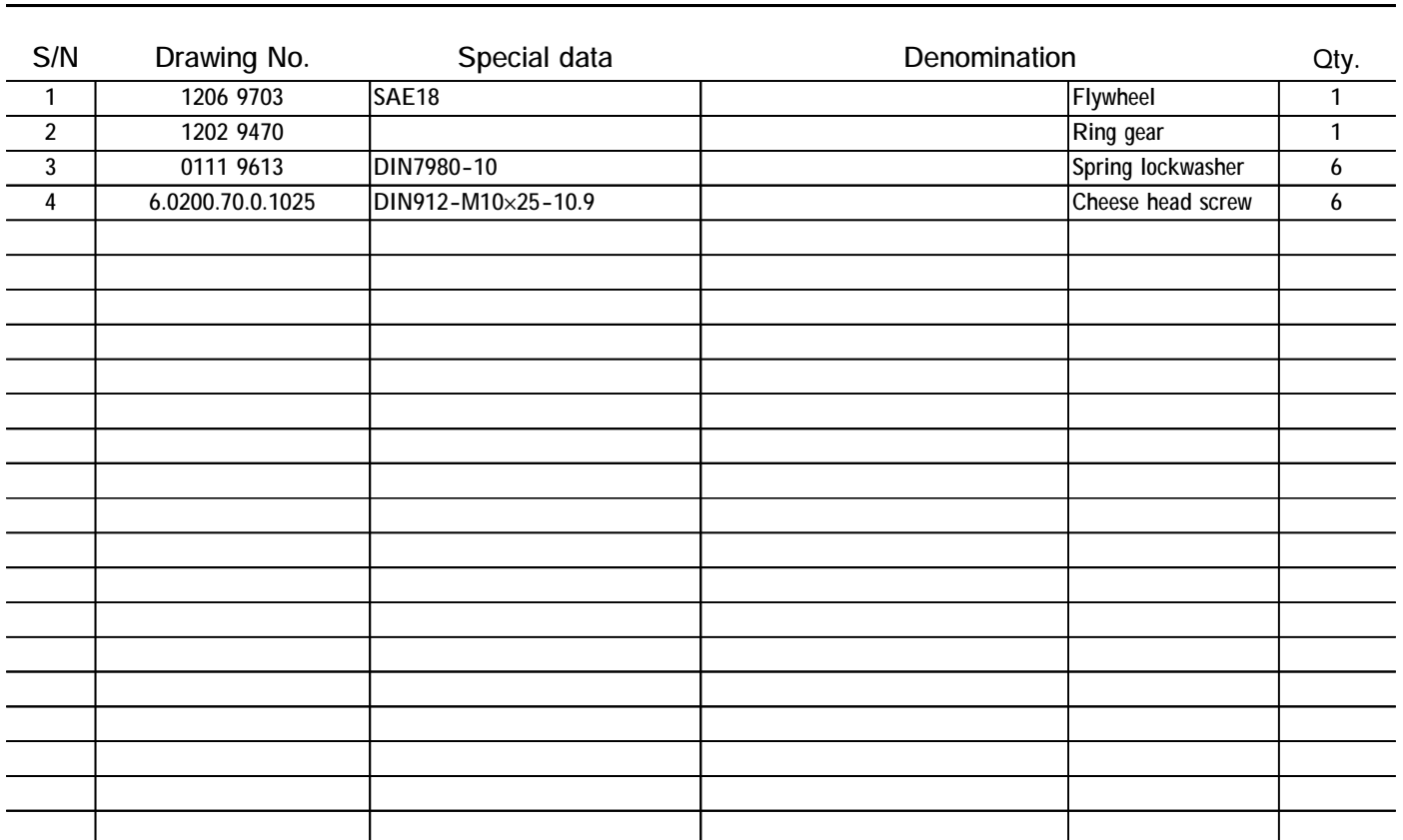


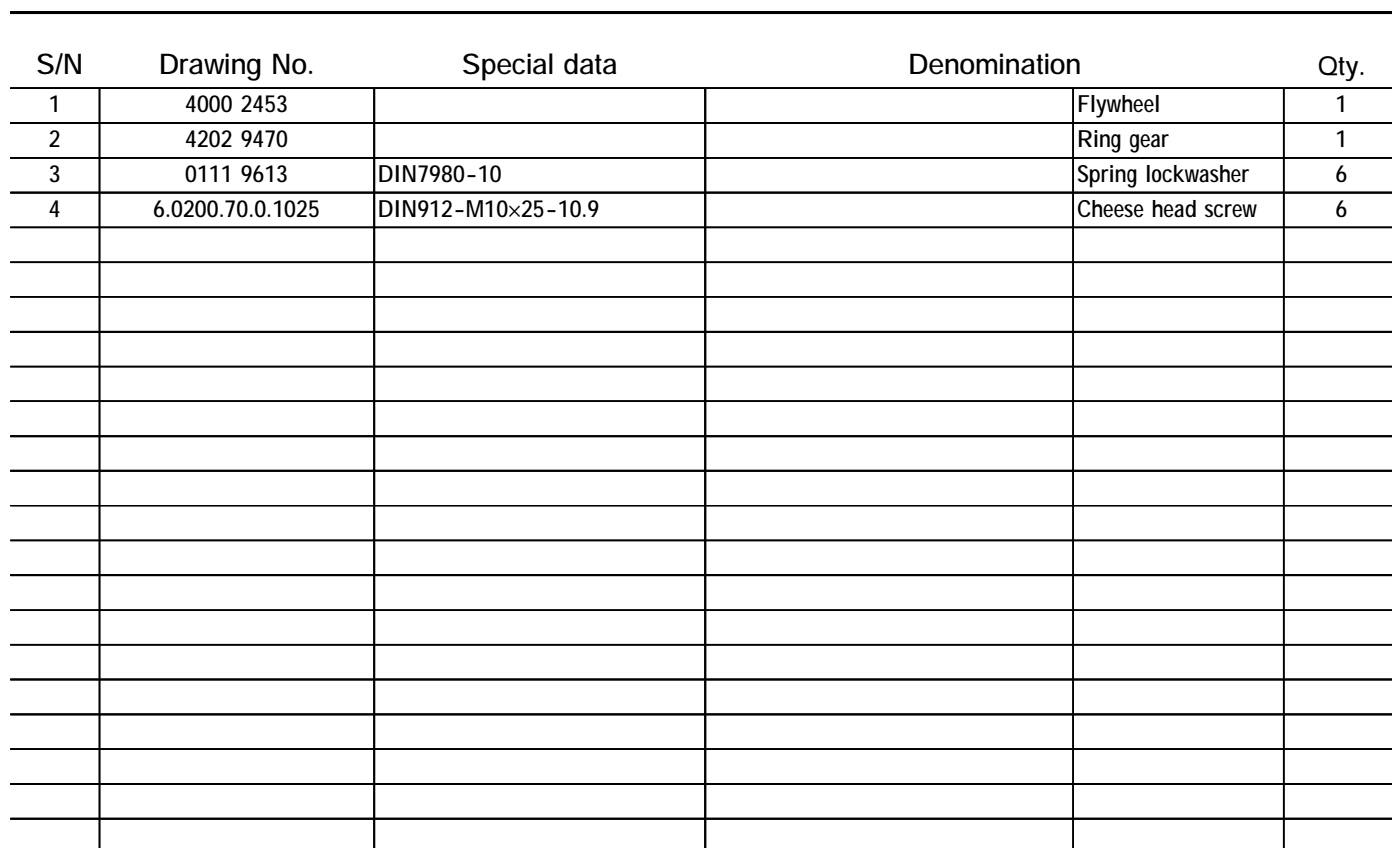
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1	1213 4810		Idler gear	1
2	0110 2833	DIN128-A10	Spring lock washer	4
3	6.0200.05.0.1035	DIN933-M10×35-8.8	Hexagon bolt	4
4	0111 5469	DIN1481-8×30	Dowel pin	1
5	1213 4599		Idler gear	1
6	1213 4812		Idler gear	1
7	1213 4809		Idler gear	1
8	1202 7657		Bearing bush	1
9	0115 1503	H2091-912-M8×50-12.9	Cheese head screw	3
10	4202 9278		Axle	1
11	4202 7494		Washer	1
12	4213 6608		Washer	1
13	4110 0914	DIN1474-5×12	Notched pin	1
14	6.0200.05.0.0818	DIN933-M8×20-8.8	Hexagon bolt	3

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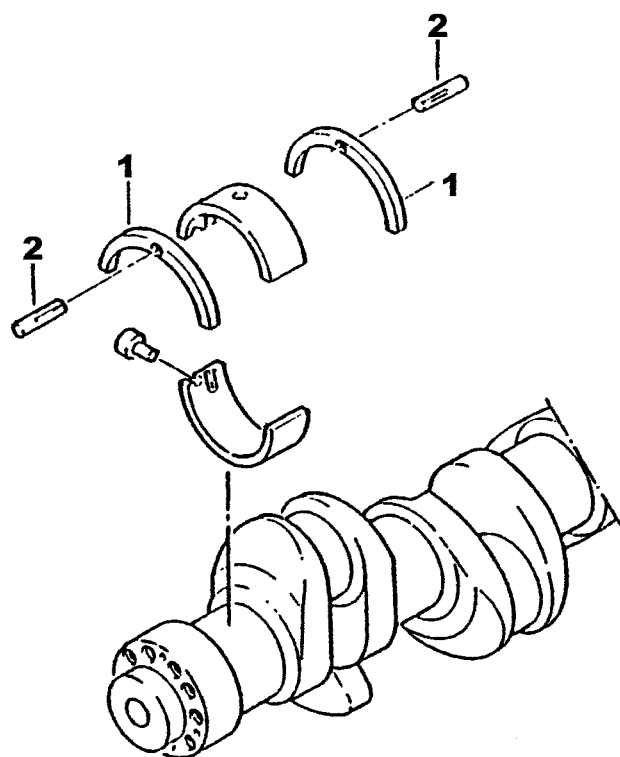


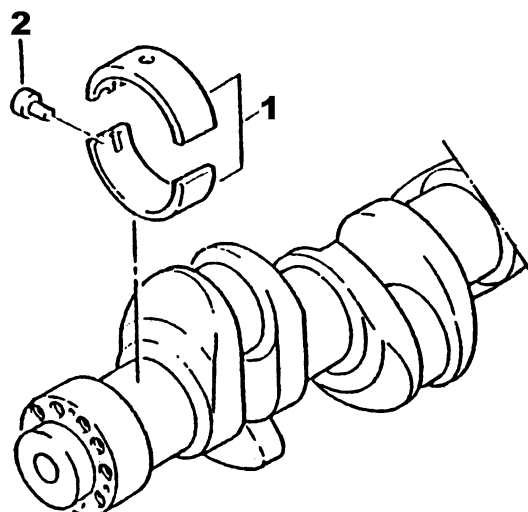


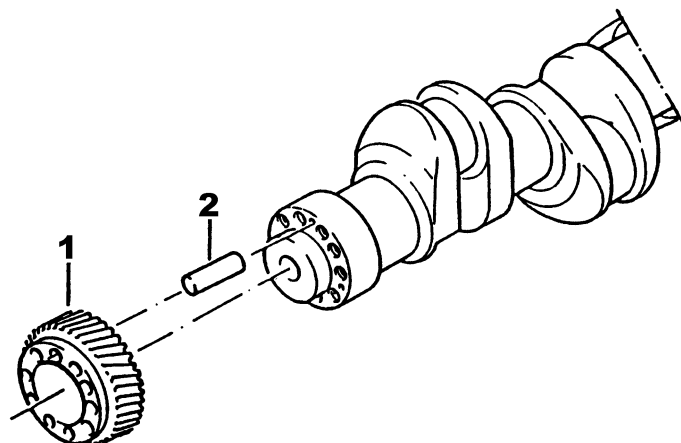




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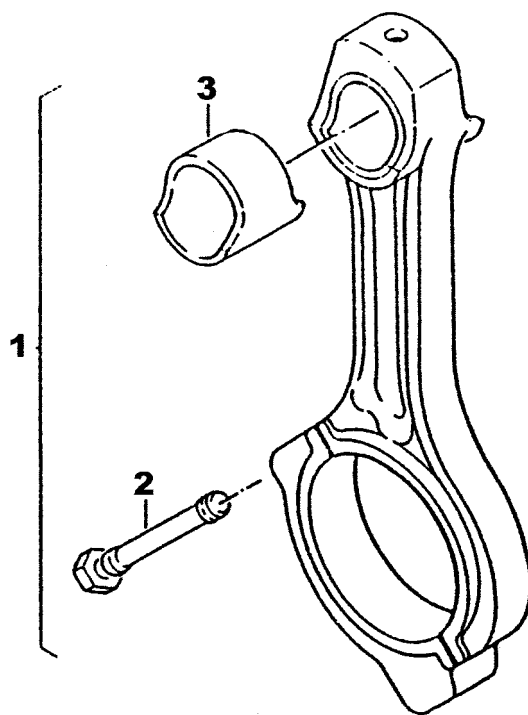
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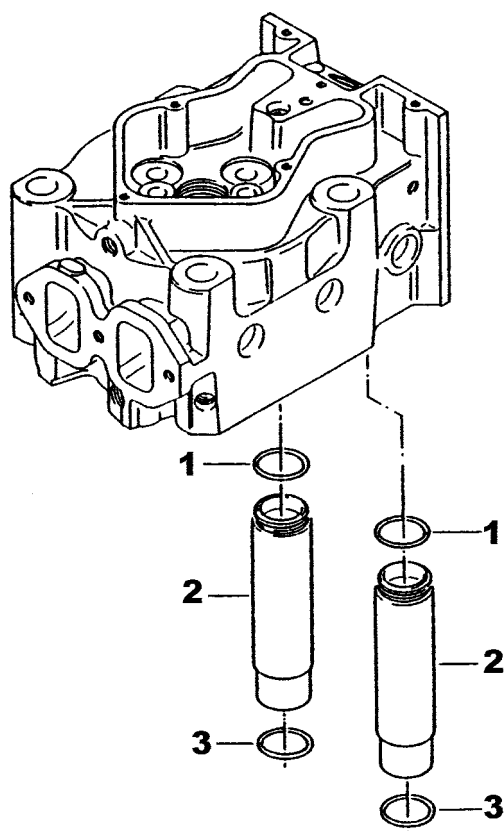
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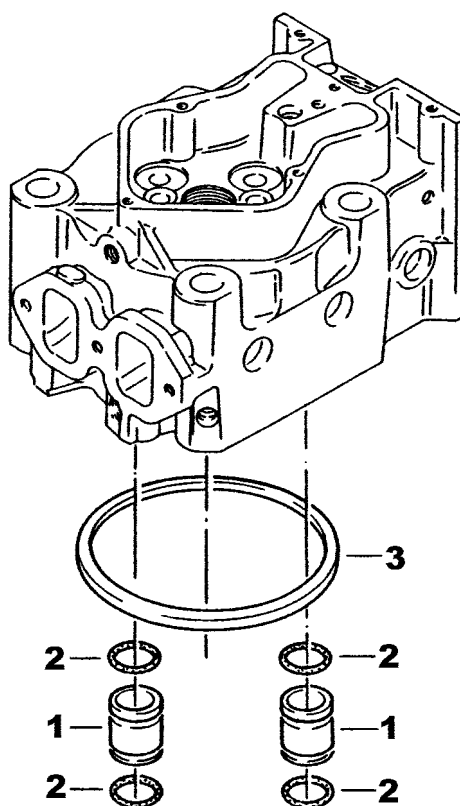
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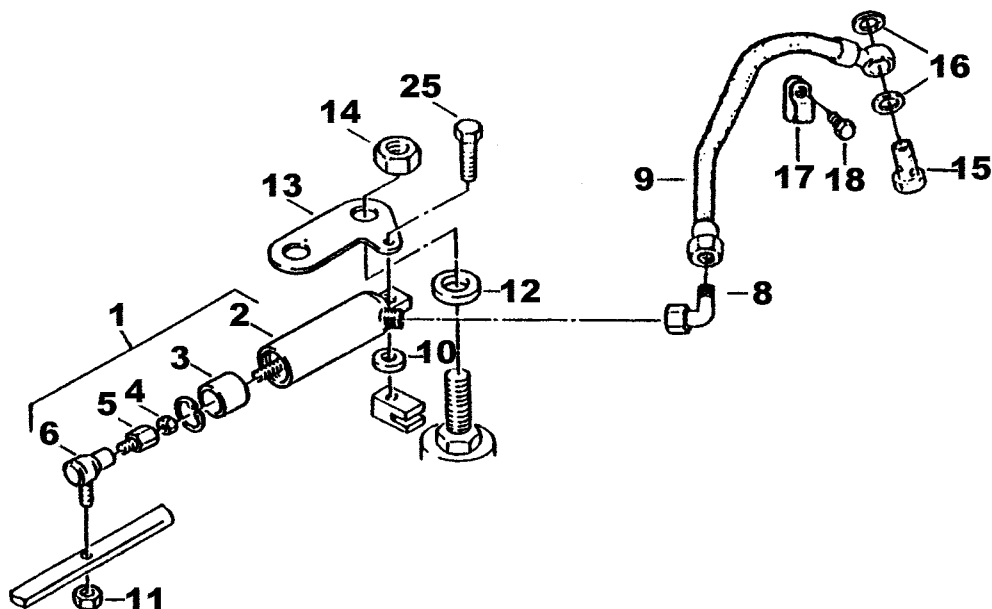
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Throttle plate control

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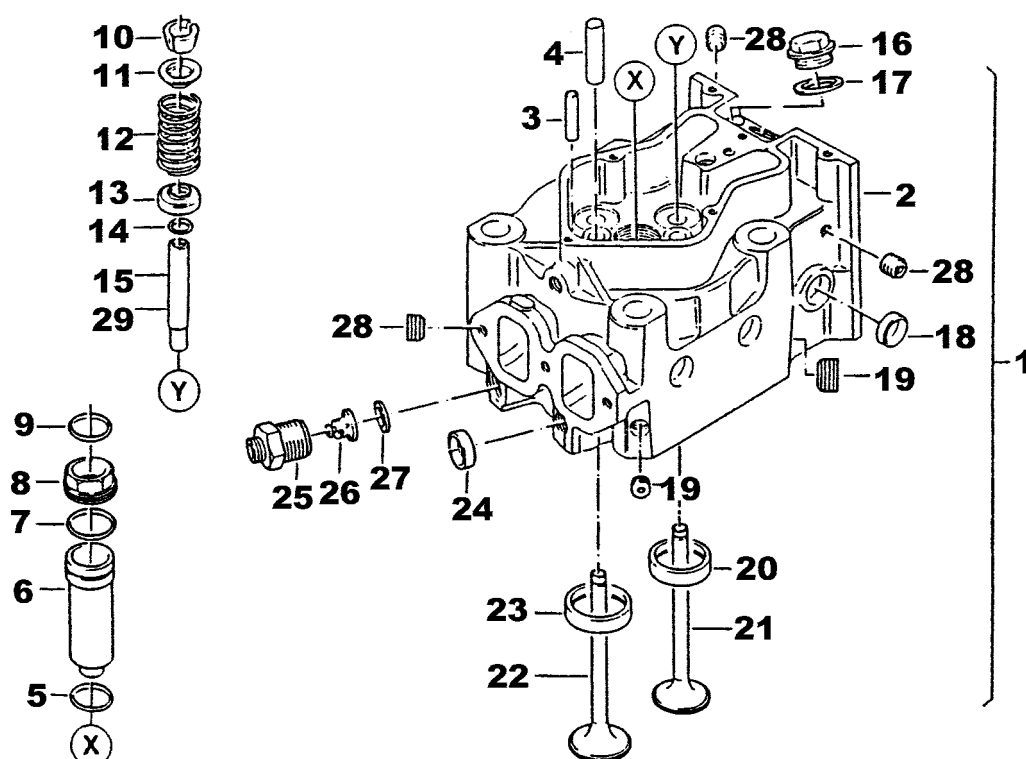


S/N	Drawing No.	Special data	Denomination	Qty.
1	MQPL-3535001		Cylinder	1
2	ML-3535011		Ram cylinder	1
3	ML-3535012		Bush	1
4	Q34008	M8 GB6170-86	Hexagon nut	1
5	ML-3535013		Reducing piece	1
6	MQPS-3524504		Angle joint	1
8	4000 0647		Angle union	1
9	0117 9011	H3467-AE-4-500	Hose	1
10	1213 6001		Washer	1
11	0111 2823	DIN934-M8-8	Hexagon nut	1
12	1212 8660		Washer	2
13	1212 8816		Plate	1
14	0115 1873	DIN439-BM24×1.5	hexagon nut	2
15	6.0404.32.0.0004	DIN7623-A4	Hollow screw	1
16	6.0492.01.0.1013	DIN7603-A10×13.5-Cu	Sealing ring	2
17	6.0402.10.7.1215	RSGU1100 12/15	Pipe clip	1
18	6.0200.05.0.0640	DIN933-M6×40-8.8	Hexagon bolt	1
25	6.0200.05.0.0835	DIN933-M8×35-8.8	Hexagon bolt	1

Cylinder head (Compressed air)

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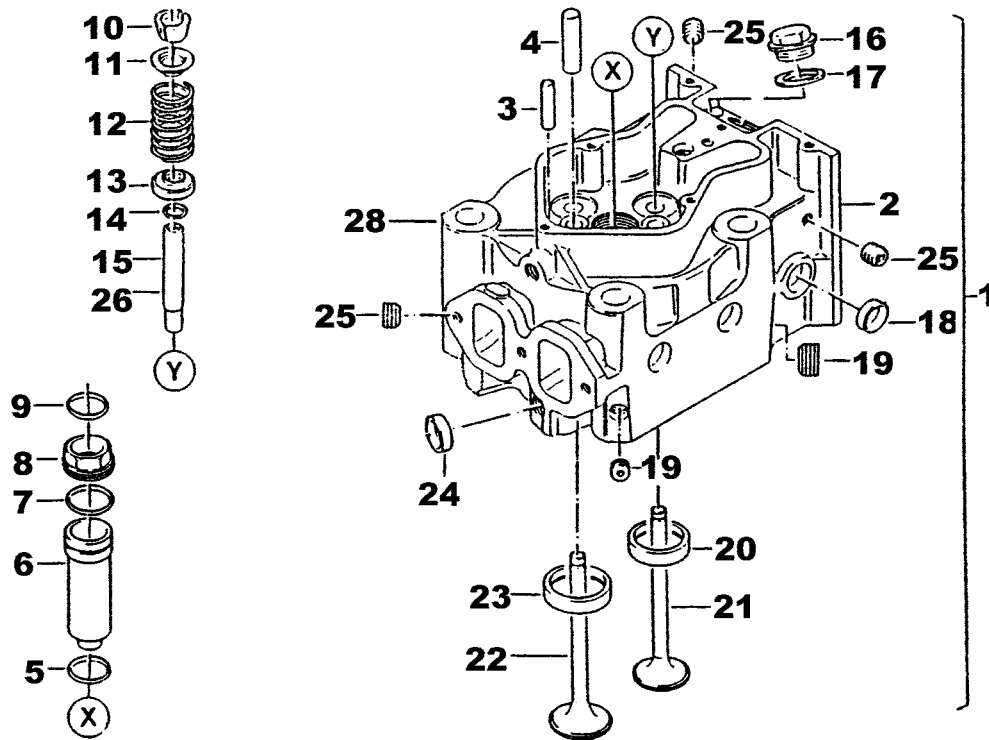
S/N	Drawing No.	Special data	Denomination	Qty.
1	1213 4409		Cylinder head	1
2	1203 2999		Cylinder head	1
3	0110 5188	DIN7-Φ10 m6×50	Parallel pin	2
4	1203 2865		Guide bolt	2
5	1201 7525		O-ring	1
6	1213 3438		Protecting tube	1
7	0115 1140	H2927-35.5×3.15	O-ring	1
8	1203 0154		Threaded ring	1
9	1203 0151		O-ring	1
10	1203 0159		Vavle collet	8
11	1202 8029		Vavle spring retain	4
12	1213 4406		Vavle spring	4
13	1203 2859		Vavle retator	4
14	0117 9104	H2927-11×2.5	O-ring	4
15	1203 2866		Vavle guide	2
16	0115 1446	DIN910-G1/4A-ST	Screw plug	1
17	6.0492.01.0.1420	DIN7603-A14×20-Cu	Sealing ring	1
18	6.0215.21.8.0036	DIN443-36	Cover	6
19	0115 1431	DIN906-M16×1.5-ST-A4C	Screw plug	3
20	1203 2868		Vavle seat	2

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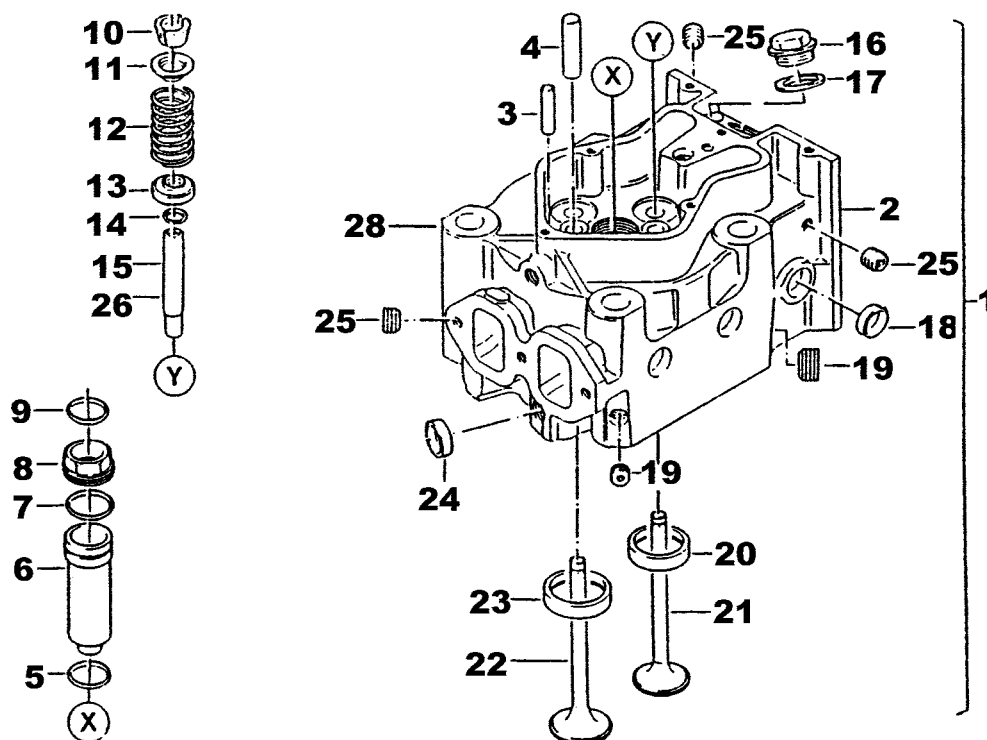
Cylinder head (electrical starting)

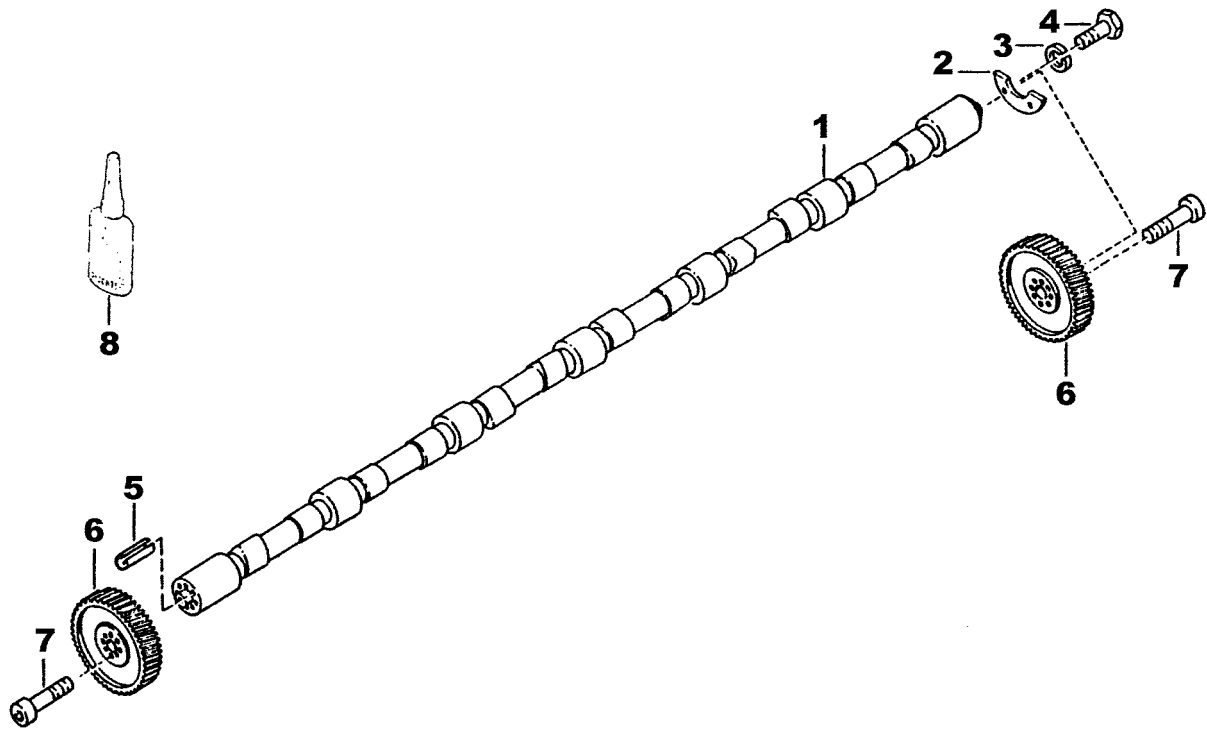
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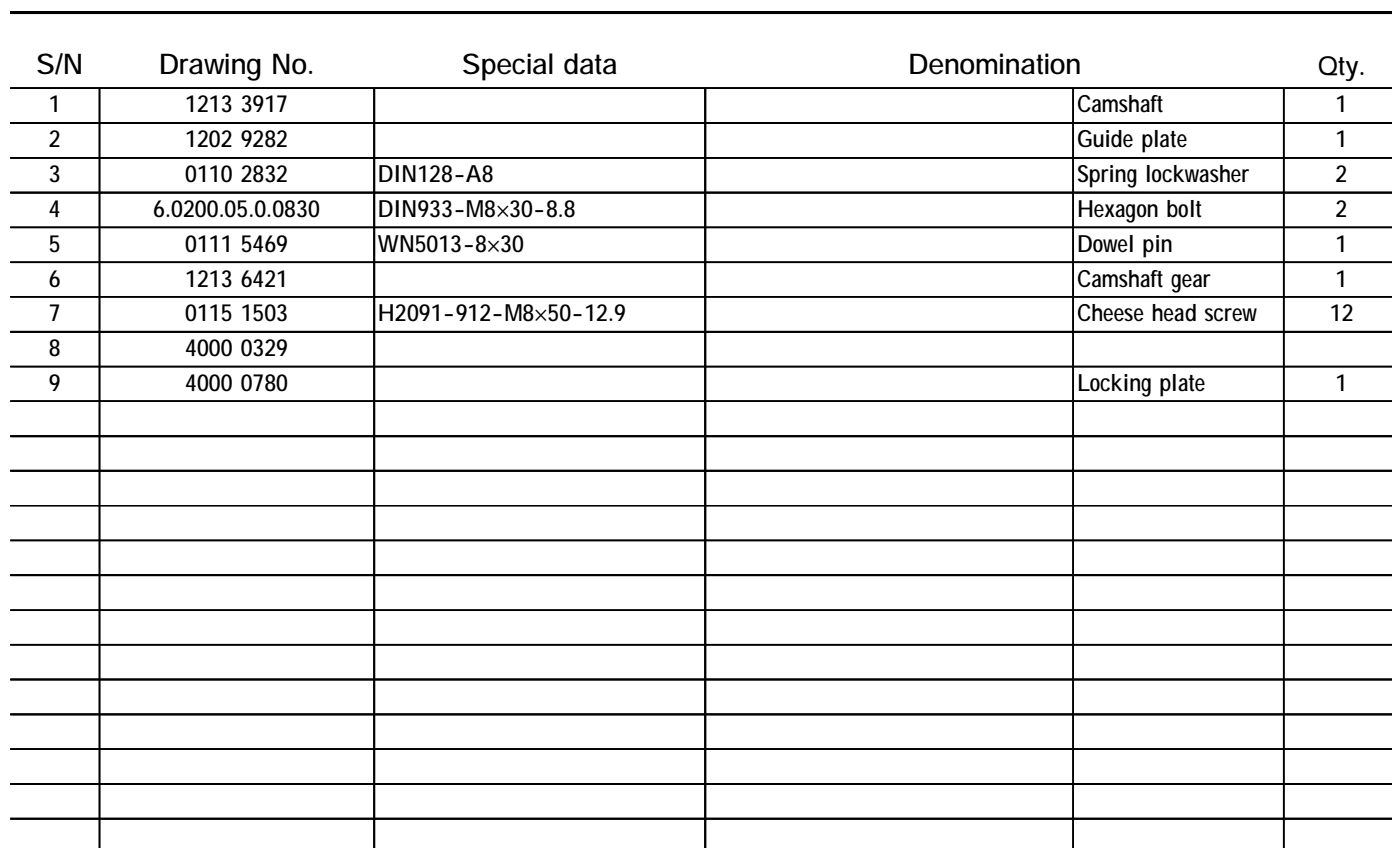


S/N	Drawing No.	Special data	Denomination	Qty.
1	1213 4411		Cylinder head	1
2	1203 2861		Cylinder head	1
3	0110 5188	DIN7-Φ10 m6×50	Parallel pin	2
4	1203 2865		Guide bolt	2
5	1201 7525		O-ring	1
6	1213 3438		Protecting tube	1
7	0115 1140	H2927-35.5×3.15	O-ring	1
8	1203 0154		Threaded ring	1
9	1203 0151		O-ring	1
10	1203 0159		Vavle collet	8
11	1202 8029		Vavle spring retain	4
12	1213 4406		Vavle spring	4
13	1203 2859		Vavle retator	4
14	0117 9104	H2927-11×2.5	O-ring	4
15	1203 2866		Vavle guide	2
16	0115 1446	DIN910-G1/4A-ST	Screw plug	1
17	6.0492.01.0.1420	DIN7603-A14×20-Cu	Sealing ring	1
18	6.0215.21.8.0036	DIN443-36	Cover	6
19	0115 1431	DIN906-M16×1.5-ST-A4C	Screw plug	3
20	1203 2868		Vavle seat	2

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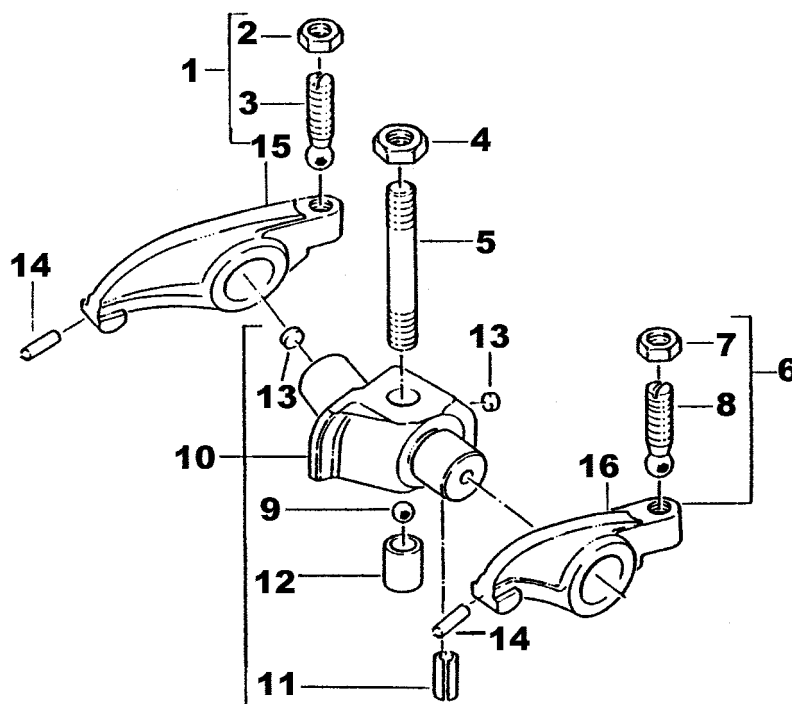
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Rocket arm bracket

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S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 2876		Rocket arm	1
2	0115 1579	DIN936-M12×1.5-22H	Hexagon nut	1
3	1202 8031		Adjusting screw	1
4	0110 1778	DIN934-M16×1.5-10	Hexagon nut	1
5	1203 0177		Stud	1
6	1203 2880		Rocket arm	1
7	0115 1579	DIN936-M12×1.5-22H	Hexagon nut	1
8	1202 8031		Adjusting screw	1
9	0111 6960	DIN5401-10mm- III	Ball	1
10	1203 2874		Rocket arm bracket	1
11	0117 6661	WN5013-11×20	Straight pin	1
12	1203 0176		Bush	1
13	4000 0836		Cover	2
14	0115 1024	DIN1471-4×10-ST	Notched pin	2
15	1203 2878		Rocket arm	1
16	1203 2882		Rocket arm	1

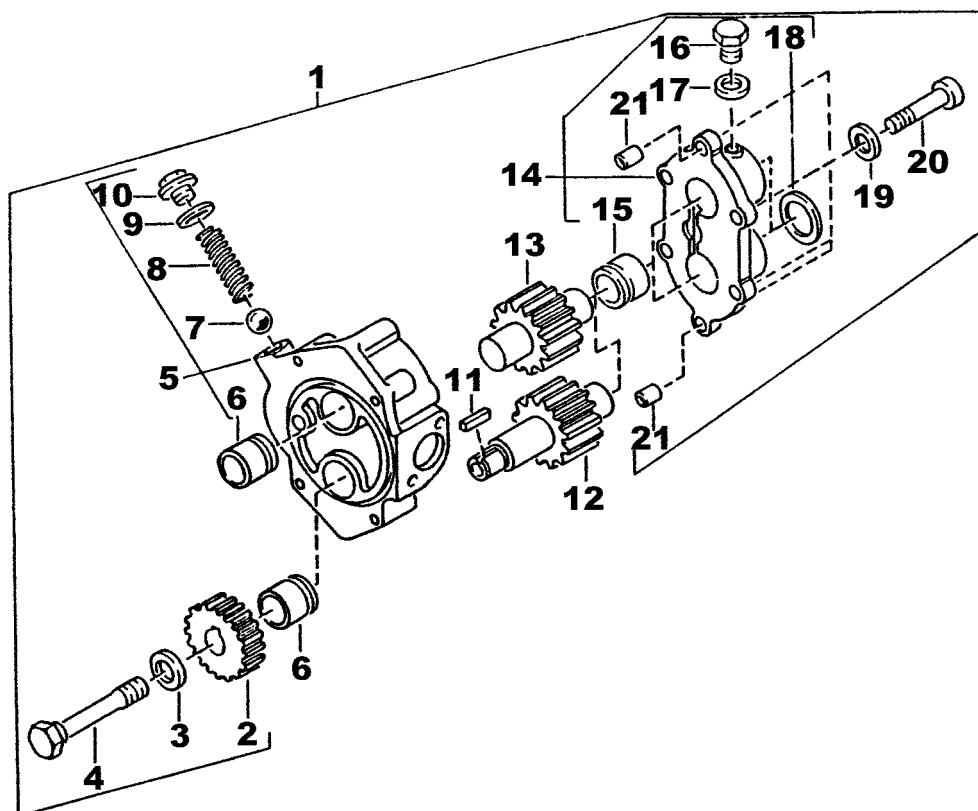
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Gear-tpe oil pump

14 508 1182

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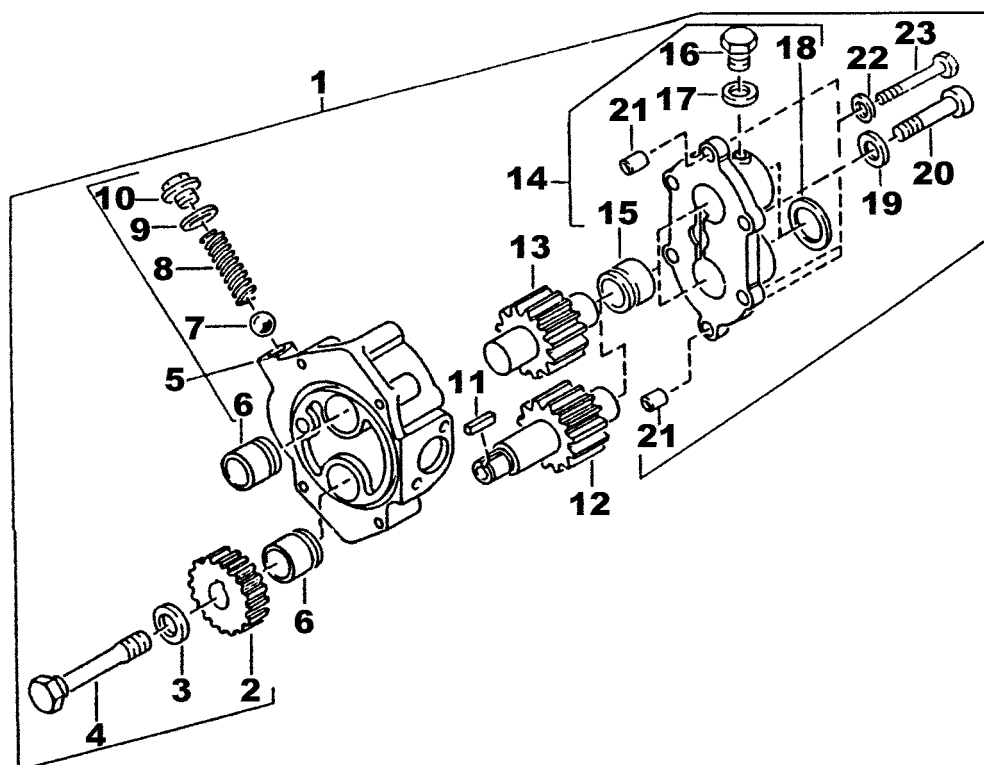


S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 9316		Geared pump	1
2	1213 4818		Drive gear	1
3	1202 7670		Plain washer	1
4	1202 7671	M14x1.5 - 10.9	Hexagon bolt	1
5	1202 9328		Pump housing	1
6	1202 7649		Bearing bush	2
7	0111 6974	DIN5401 - 24mm - III	Ball	1
8	1202 9330		Compression spring	1
9	6.0492.01.0.2631	DIN7603 - A26x31	Sealing ring	1
10	0115 1337	DIN7604 - AM26x1.5	Screw plug	1
11	0111 8005	DIN6885 - A8x5x25	Parallel key	1
12	1202 9325		Toothed gear	1
13	1202 9322		Shaft	1
14	1202 9318		Oil pump cover	2
15	1202 7649		Bearing bush	2
16	0113 1075	DIN908 - M10x1	Screw plug	1
17	0115 1319	DIN7603 - A10x15	Sealing ring	2
18	0115 1199	DIN443 - B40	Cover	2
19	6.0215.01.0.0105	DIN125 - 10.5	Plain washer	6
20	6.0200.70.0.1090	DIN912 - M10x90 - 10.9	Cheese head screw	6
21	1202 8421		Bush	2

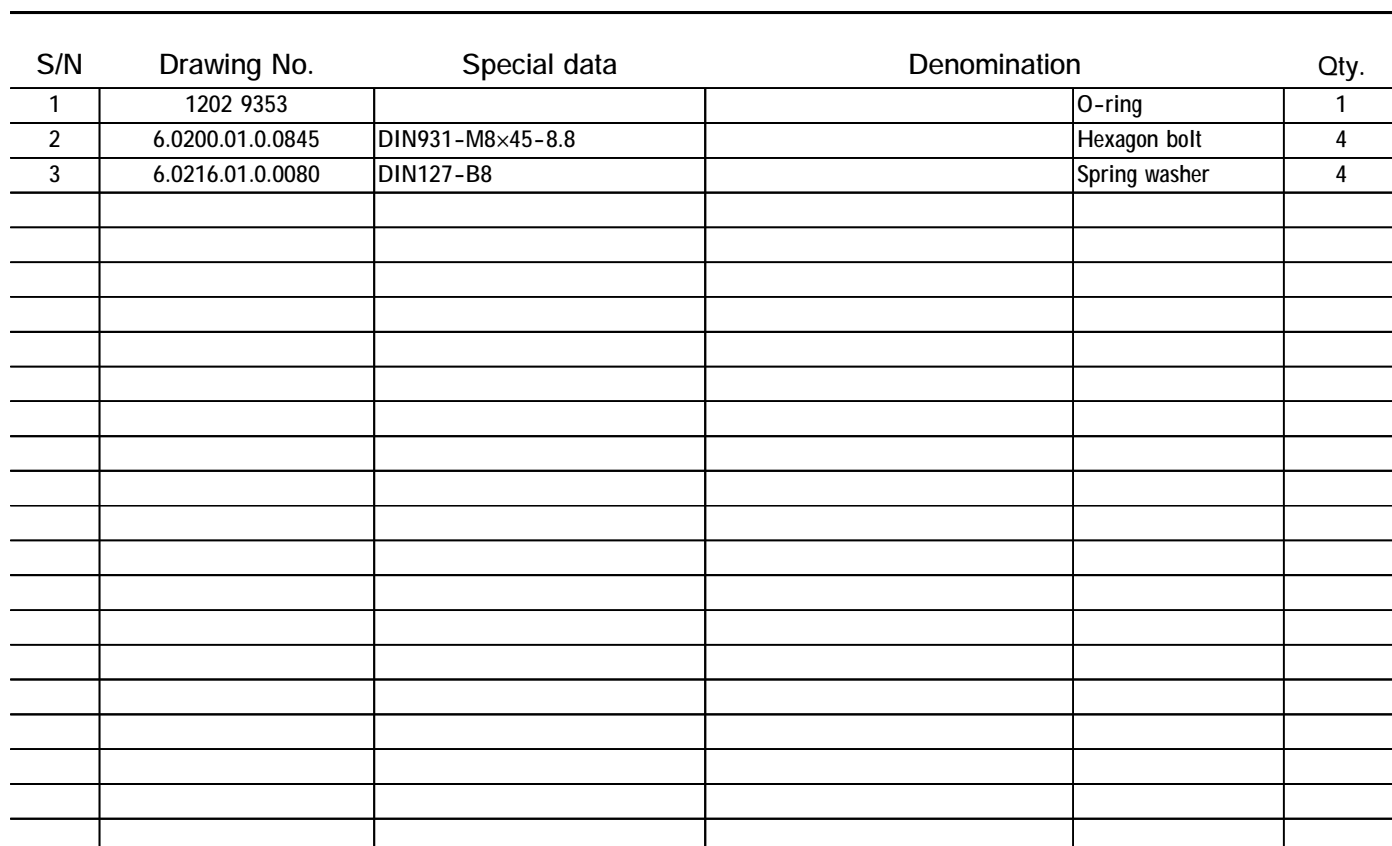
Gear-tpe oil pump

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S/N	Drawing No.	Special data	Denomination	Qty.
1	4000 2412		Geared pump	1
2	1213 4818		Drive gear	1
3	1202 7670		Plain washer	1
4	1202 7671	M14×1.5-10.9	Hexagon bolt	1
5	4000 0881		Pump housing	1
6	1202 7649		Bearing bush	2
7	0111 6974	DIN5401-24mm- III	Ball	1
8	1202 9330		Compression spring	1
9	6.0492.01.0.2631	DIN7603-A26×31	Sealing ring	1
10	0115 1337	DIN7603-AM26×1.5	Screw plug	1
11	0111 8005	DIN6885-A8×5×25	Parallel key	1
12	4000 0629		Toothed gear	1
13	4000 0627		Shaft	1
14	4202 9318		Oil pump cover	2
15	1202 7649		Bearing bush	2
16	0113 1075	DIN908-M10×1	Screw plug	1
17	0115 1319	DIN7603-A10×15	Sealing ring	2
18	0115 1199	DIN443-B40	Cover	2
19	6.0215.01.0.0105	DIN125-10.5	Plain washer	4
20	6.0200.70.0.1090	DIN912-M10×90-10.9	Cheese head screw	4
21	4000 2409		Bush	2
22	6.0215.01.0.0084	A8.4DIN125-ST	Plain washer	2
23	6.0200.70.0.0890	DIN912-M8×90-10.9	Cheese head screw	2



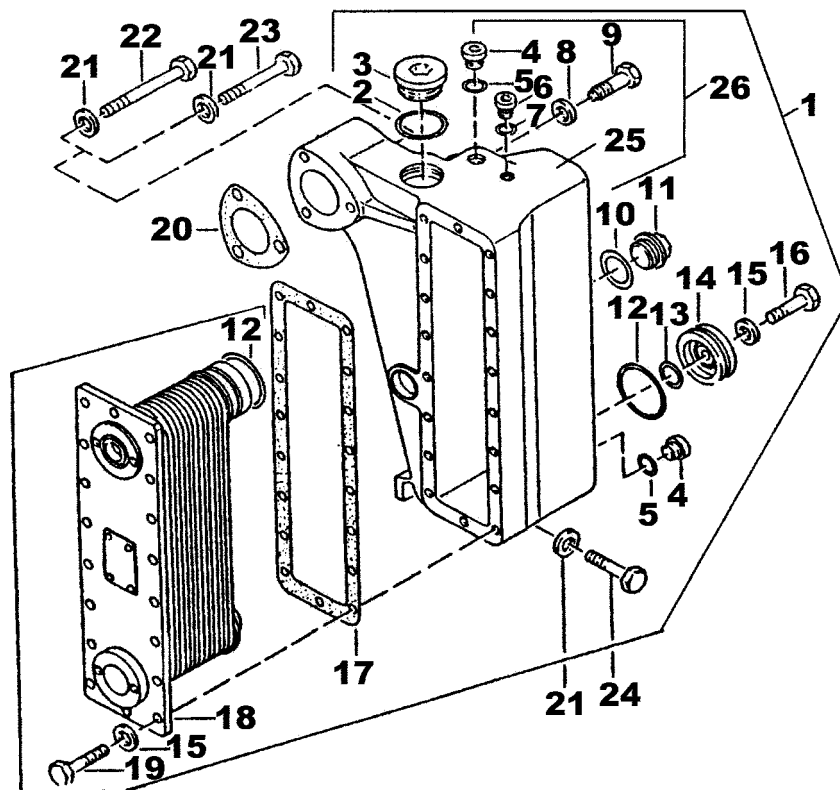


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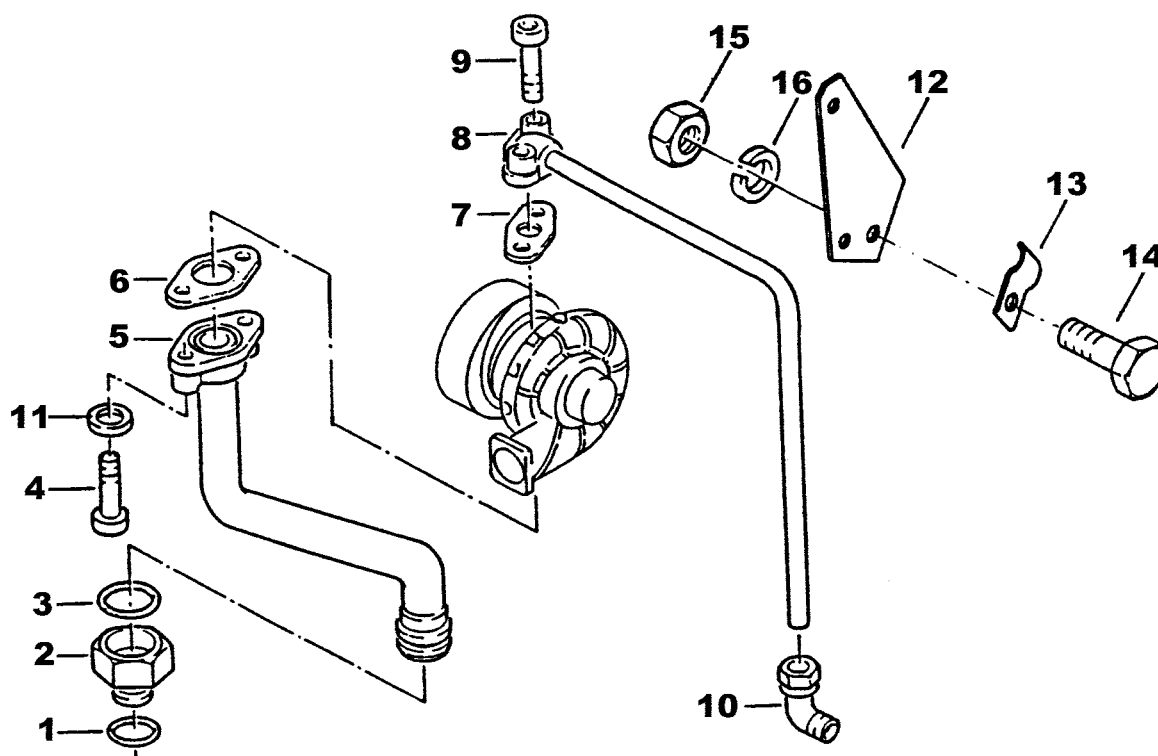
Oil cooler

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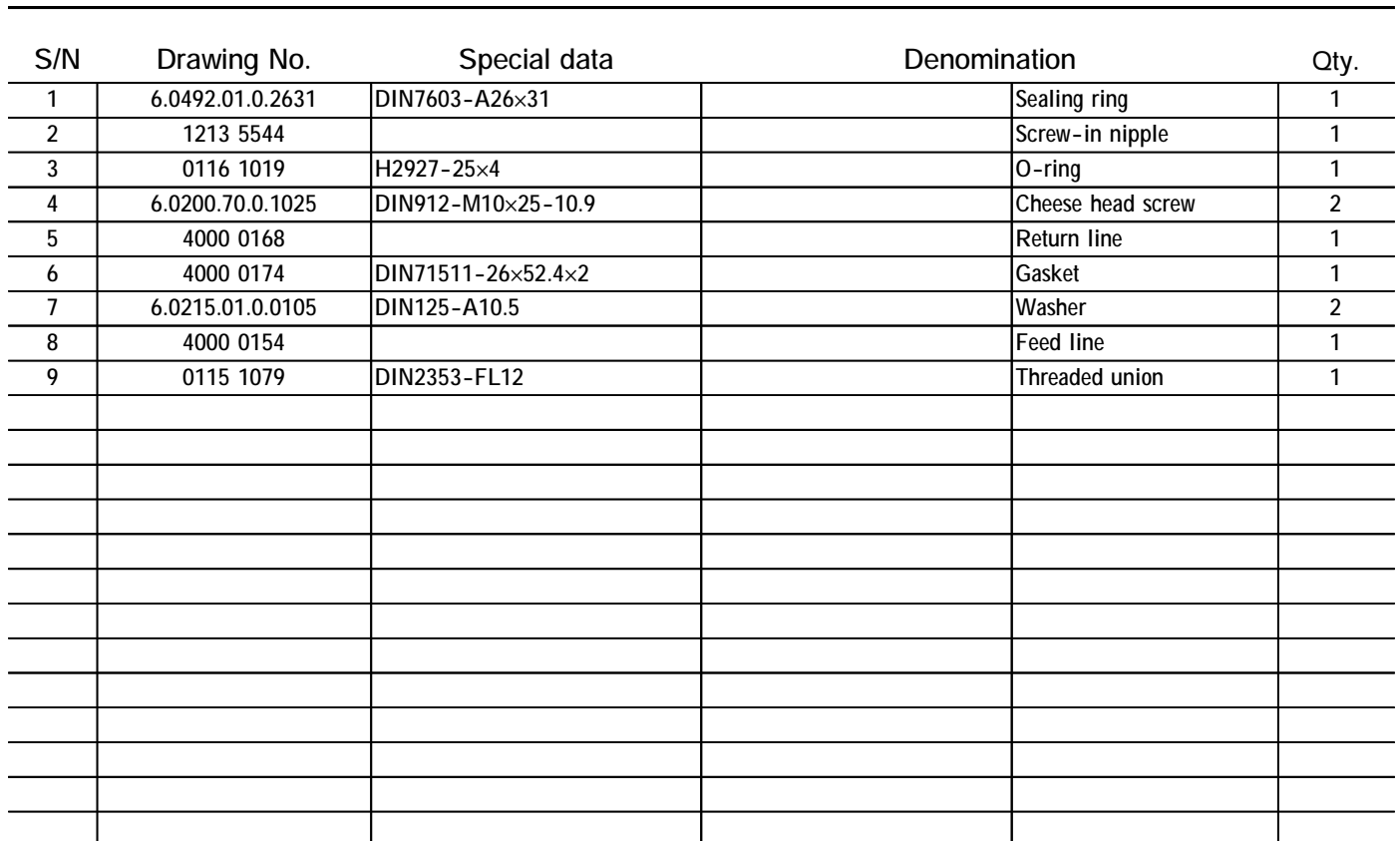
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S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 0011		Oil cooler	1
2	1202 5686		Sealing ring	1
3	0117 6772	WN7600-R1.5	Screw plug	1
4	0115 1441	DIN908-M18x1.5	Screw plug	2
5	6.0492.01.0.1824	DIN7603-A18x24	Sealing ring	2
6	0113 8667	DIN908-M16x1.5	Screw plug	1
7	6.0492.01.0.1622	DIN7603-A16x22	Sealing ring	1
8	0115 1323	DIN7603-A8x13	Sealing ring	1
9	0115 1225	DIN561-AM8x20	Hexagon bolt	1
10	0111 8801	DIN7603-A33x39	Sealing ring	1
11	0115 1447	DIN910-GIA	Screw plug	1
12	0115 1145	H2927-60x4	O-ring	2
13	0115 1138	H2927-28x3.15	O-ring	1
14	1203 0018		Washer/disc/plate	1
15	6.0215.01.0.0084	DIN125-8.4	Washer	19
16	6.0200.05.0.0820	DIN933-M8x20-8.8	Hexagon bolt	1
17	1203 0019		Gasket	1
18	1203 0016		Cooler insert	1
19	6.0200.05.0.0825	DIN933-M8x25-8.8	Hexagon bolt	18
20	1203 0020		Gasket	1
21	6.0215.01.0.0105	DIN125-10.5	Washer	5
22	6.0200.01.0.1090	DIN931-M10x90-8.8	Hexagon bolt	2
23	6.0200.01.1.1010	DIN931-M10x100-8.8	Hexagon bolt	1
24	6.0200.05.0.1025	DIN931-M10x25-8.8	Hexagon bolt	2
25	1213 3252		Hull	1
26	1203 0014		Hull	1



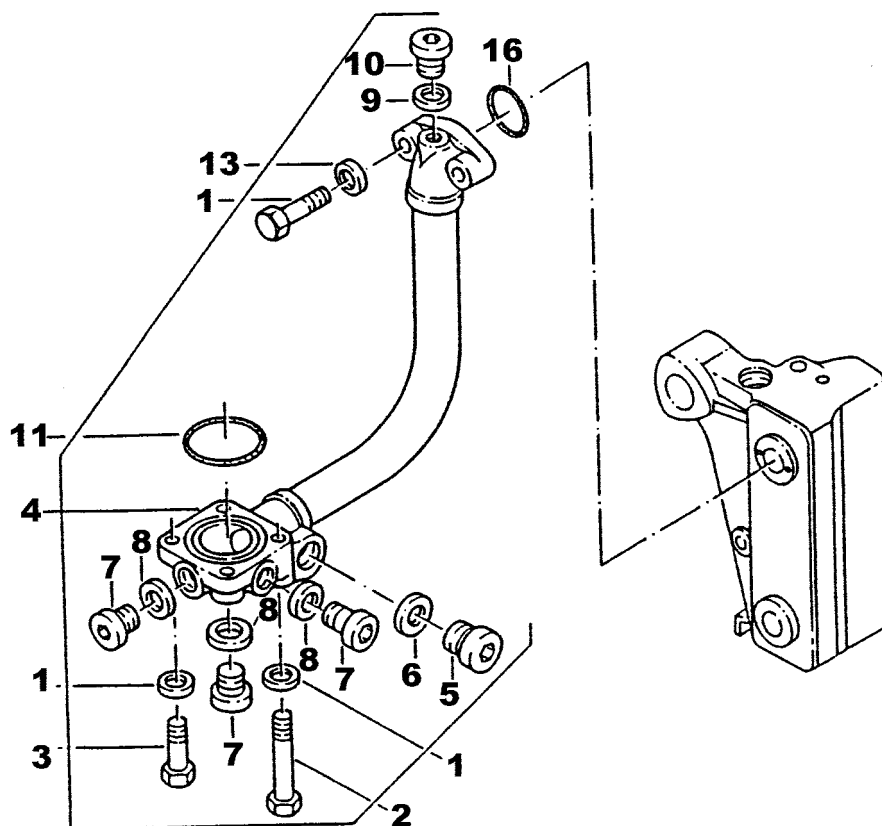
S/N	Drawing No.	Special data	Denomination	Qty.
1	6.0492.01.0.2631	DIN7603-A26x31	Sealing ring	1
2	1213 5544		Screw-in nipple	1
3	0116 1019	H2927-25x4	O-ring	1
4	6.0200.70.0.1025	DIN912-M10x25-10.9	Cheese head screw	2
5	1213 5542		Return line	1
6	1227 5220		Gasket	1
7	1202 9576		Gasket	1
8	1204 7181		Feed line	1
9	0111 0665	DIN912-M10x35-10.9	Cheese head screw	2
10	0115 1079	DIN2353-FL12	Threaded union	1
11	6.0215.01.0.0105	DIN125-10.5	Washer	2
12	1213 4182		Support plate	1
13	0111 5945	DIN1592-13	Clip	1
14	6.0200.05.0.1020	DIN933-M10x20-8.8	Hexagon bolt	1
15	0115 1574	DIN934-M10-A4C-8	Hexagon nut	1
16	6.0216.01.0.0100	DIN127-B10	Spring lock washer	1



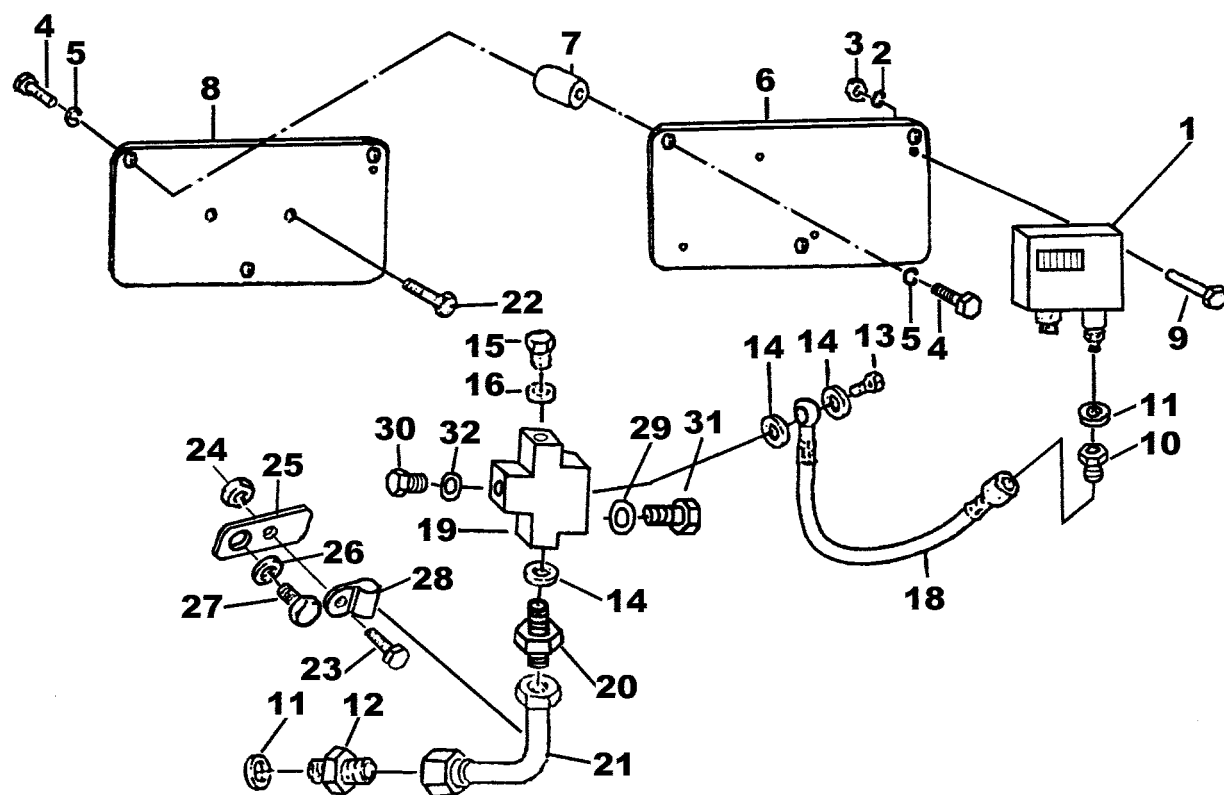
Oil line for oil cooler

16 508 1192

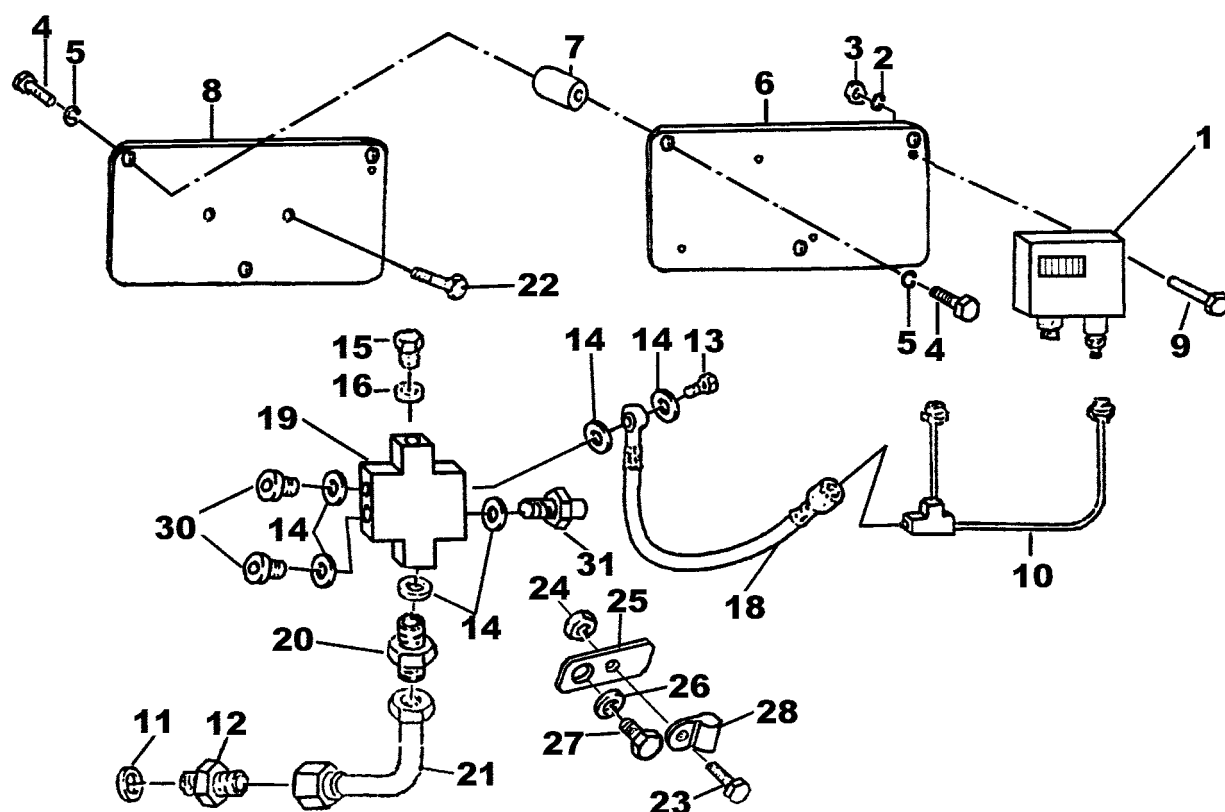
Page 1 of 1



S/N	Drawing No.	Special data	Denomination	Qty.
1	6.0215.01.0.0105	DIN125-10.5	Washer	4
2	0111 2454	DIN933-M10×50-8.8	Hexagon bolt	2
3	6.0200.05.0.1025	DIN933-M10×25-8.8	Hexagon bolt	2
4	4202 9993		Oil pipe	1
5	0113 7208	DIN908-G1/2A	Screw plug	1
6	0111 8727	DIN7603-A20×24	Sealing ring	1
7	0115 1441	DIN908-M18×1.5	Screw plug	3
8	6.0492.01.0.1824	DIN7603-A18×24	Sealing ring	3
9	0115 1319	DIN7603-A10×15	Sealing ring	1
10	0113 1075	DIN908-M10×1	Screw plug	1
11	1202 9999	54×3	O-ring	1
12	6.0200.05.0.0835	DIN933-M8×35-8.8	Hexagon bolt	2
13	6.0215.01.0.0084	DIN125-8.4	Washer	2
16	0117 9353	H2927-35.5×3.15	O-ring	1

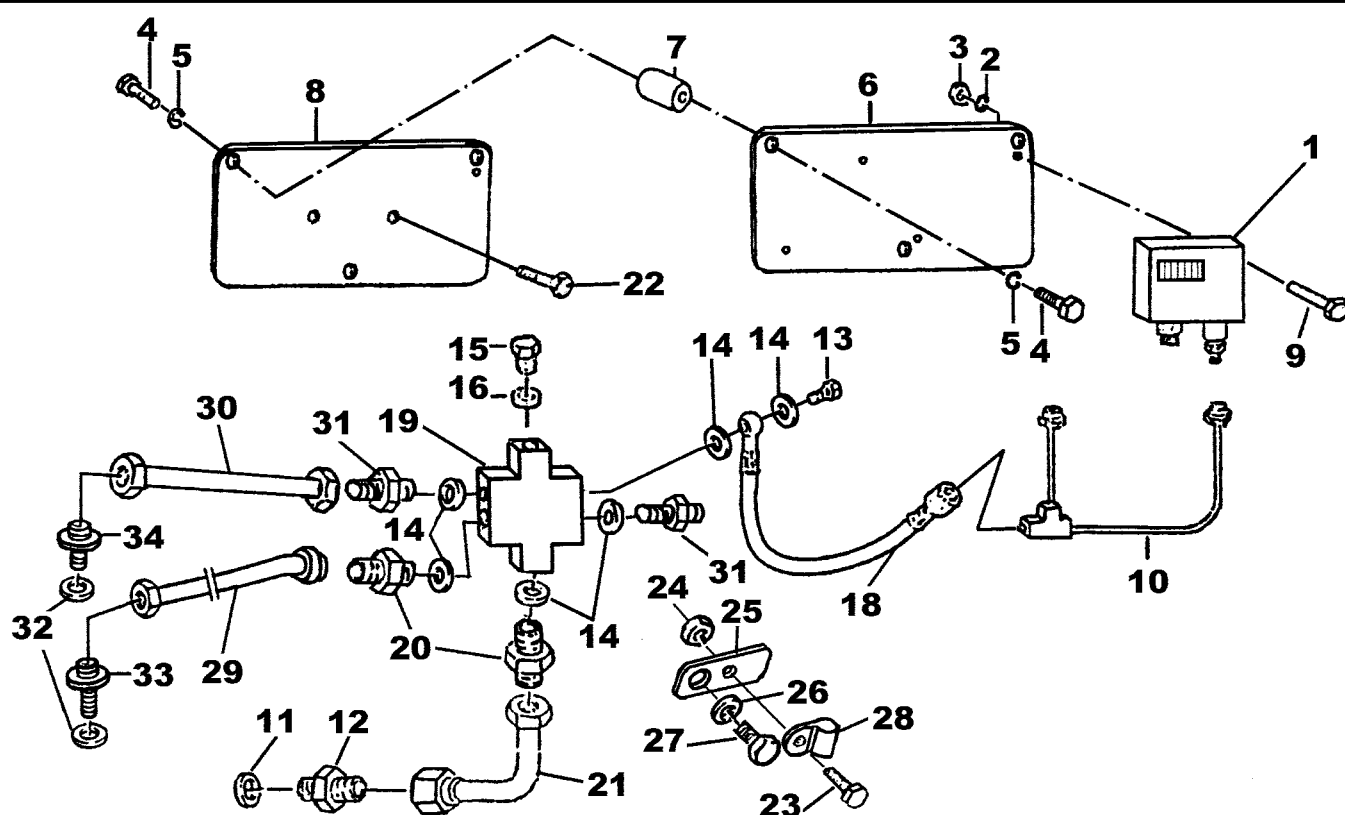


S/N	Drawing No.	Special data	Denomination	Qty.
1	4.000.9.060.700.4	EK-1	Pressure switch	1
2	6.0216.01.0.0040	DIN127-B4	Spring ring	2
3	6.0210.05.4.0040	DIN934-M4-8-A	Hexagon nut	2
4	6.0200.05.0.0612	DIN933-M6×12-8.8	Hexagon bolt	6
5	6.0216.01.0.0060	DIN127-B6	Spring ring	6
6	4.234.0.650.934.4		Shackle	1
7	6.0650.01.0.0207		Vibration damper	3
8	4.234.0.650.945.4		Shackle	1
9	6.0203.30.0.0422	DIN84-M4×22-5.8	Cheese head screw	2
10	4.234.0.355.736.4		Screw	1
11	6.0492.01.0.1218	A12×18 DIN7603-Cu	Sealing ring	2
12	4000 2489		Connector body	1
13	6.0404.32.0.0006	DIN7623-A6	Hollow screw	1
14	6.0492.01.0.1218	DIN7603-A12×18-Cu	Sealing ring	3
15	6.0206.05.0.1415	DIN7604-A-M14×1.5-ST	Screw plug	1
16	6.0492.01.0.1418	DIN7603-A14×18-Cu	Sealing ring	1
18	6.234.0.939.021.4		Flexible pipe	1
19	4000 2659		Connector body	1
20	0113 2991		Connector body	1
21	4000 0943		Oil pipe	1
22	6.0200.05.0.0825	DIN933-M8×25-8.8	Hexagon bolt	2
23	6.0200.05.0.0620	DIN933-M6×20-8.8	Hexagon bolt	1

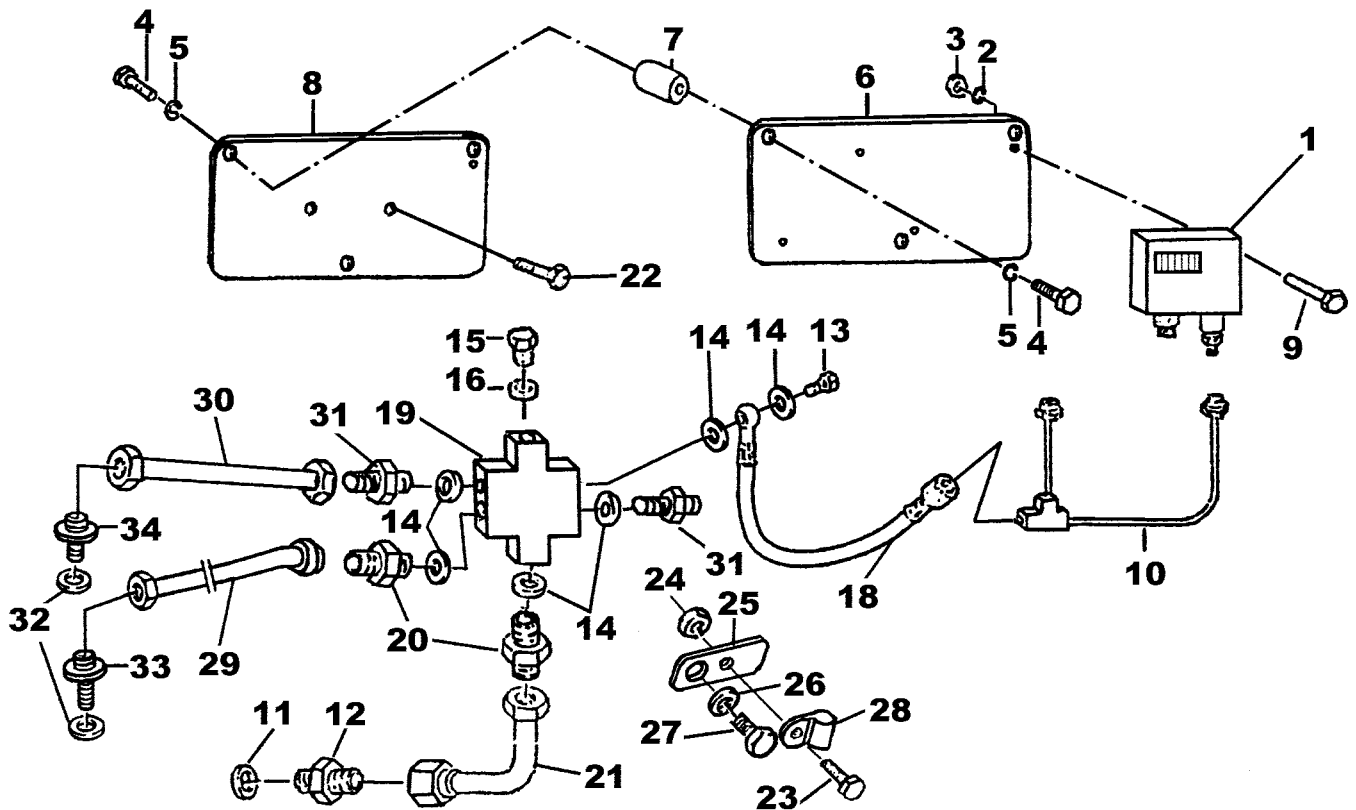


S/N	Drawing No.	Special data	Denomination	Qty.
1	4.000.9.060.700.4	EK-1	Pressure switch	2
2	6.0216.01.0.0040	DIN127-B4	Spring ring	4
3	6.0210.05.4.0040	DIN934-M4-8-A	Hexagon nut	4
4	6.0200.05.0.0612	DIN933-M6×12-8.8	Hexagon bolt	6
5	6.0216.01.0.0060	DIN127-B6	Spring ring	6
6	4.234.0.650.934.4		Shackle	1
7	6.0650.01.0.0207		Vibration damper	3
8	4.234.0.650.945.4		Shackle	1
9	6.0203.30.0.0422	DIN84-M4×22-5.8	Cheese head screw	2
10	4.234.0.942.905.5		Connector pipe	1
11	6.0492.01.0.1218	A12×18 DIN7603-Cu	Sealing ring	1
12	4000 2489		Connector body	1
13	6.0404.32.0.0006	DIN7623-A6	Hollow screw	1
14	6.0492.01.0.1218	DIN7603-A14×18-Cu	Sealing ring	6
15	6.0206.05.0.1415	DIN7604-A-M14×1.5-ST	Screw plug	1
16	6.0492.01.0.1418	DIN7603-A14×18-Cu	Sealing ring	1
18	6.234.0.939.021.4		Flexible pipe	1
19	4000 0937		Connector body	1
20	0113 2991		Connector body	1
21	4000 0943		Oil pipe	1
22	6.0200.05.0.0825	DIN933-M8×25-8.8	Hexagon bolt	2
23	6.0200.05.0.0620	DIN933-M6×20-8.8	Hexagon bolt	1

Oil pipe rode



S/N	Drawing No.	Special data	Denomination	Qty.
1	4.000.9.060.700.4	EK-1	Pressure switch	2
2	6.0216.01.0.0040	DIN127-B4	Spring ring	4
3	6.0210.05.4.0040	DIN934-M4-8-A	Hexagon nut	4
4	6.0200.05.0.0612	DIN933-M6×12-8.8	Hexagon bolt	6
5	6.0216.01.0.0060	DIN127-B6	Spring ring	6
6	4.234.0.650.934.4		Shackle	1
7	6.0650.01.0.0207		Vibration damper	3
8	4.234.0.650.945.4		Shackle	1
9	6.0203.30.0.0422	DIN84-M4×22-5.8	Cheese head screw	2
10	4.234.0.942.905.5		Connector pipe	1
11	6.0492.01.0.1218	A12×18 DIN7603-Cu	Sealing ring	1
12	4000 2489		Connector body	1
13	6.0404.32.0.0006	DIN7623-A6	Hollow screw	1
14	6.0492.01.0.1218	DIN7603-A12×18-Cu	Sealing ring	6
15	6.0206.05.0.1415	DIN7604-A-M14×1.5-ST	Screw plug	1
16	6.0492.01.0.1418	DIN7603-A14×18-Cu	Sealing ring	1
18	6.234.0.939.021.4		Flexible pipe	1
19	4000 0937		Connector body	1
20	0113 2991		Connector body	2
21	4000 0943		Oil pipe	1
22	6.0200.05.0.0825	DIN933-M8×25-8.8	Hexagon bolt	2
23	6.0200.05.0.0620	DIN933-M6×20-8.8	Hexagon bolt	1

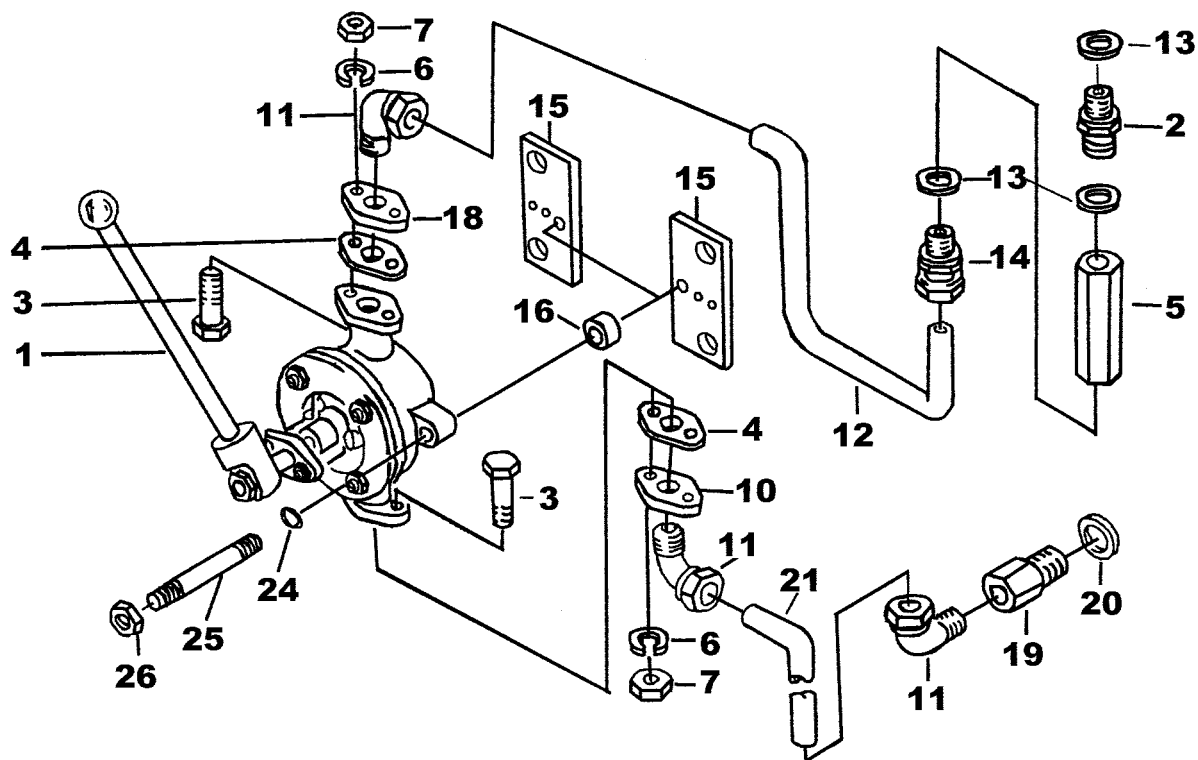
[illegible]



Lube oil hand pump

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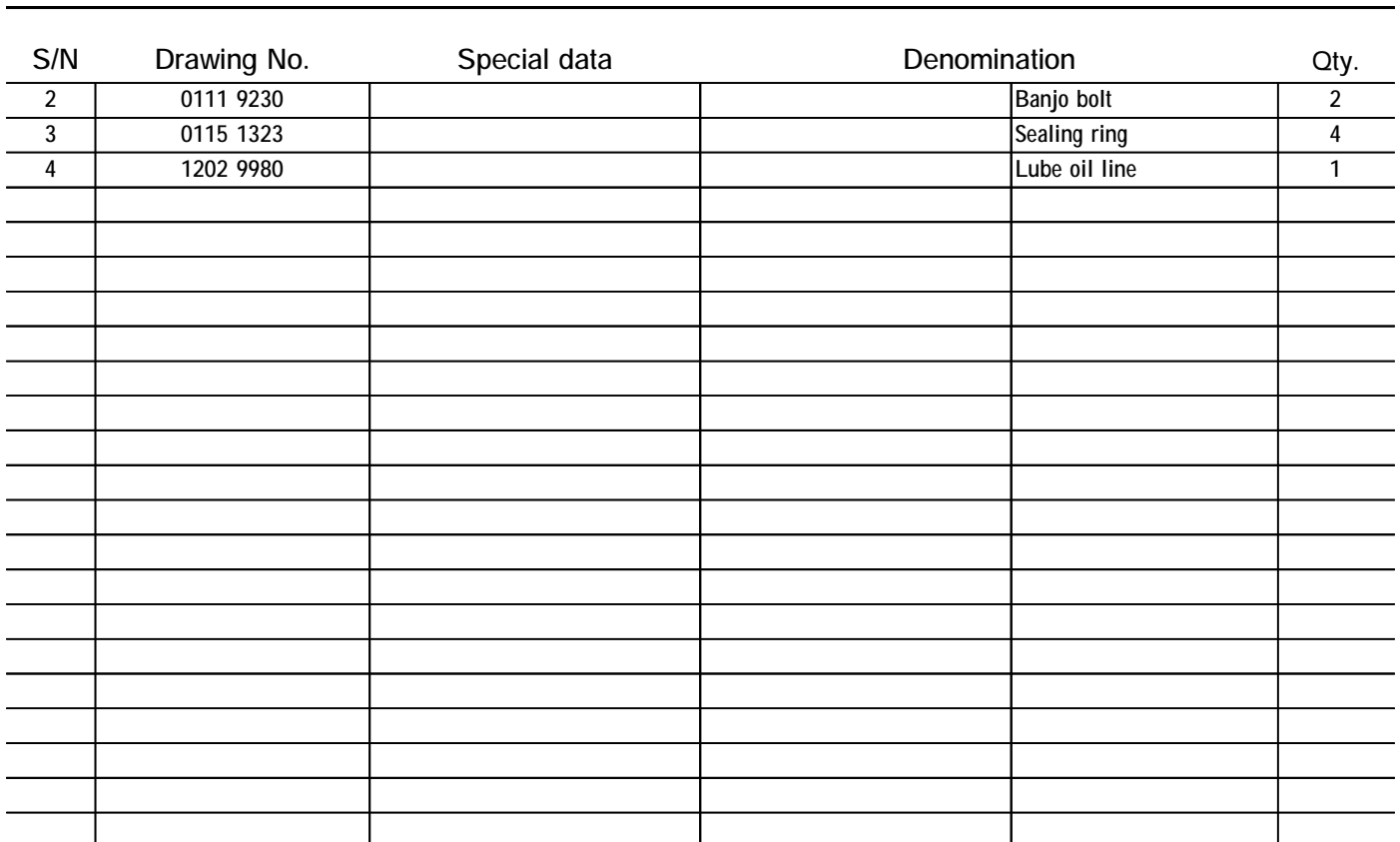
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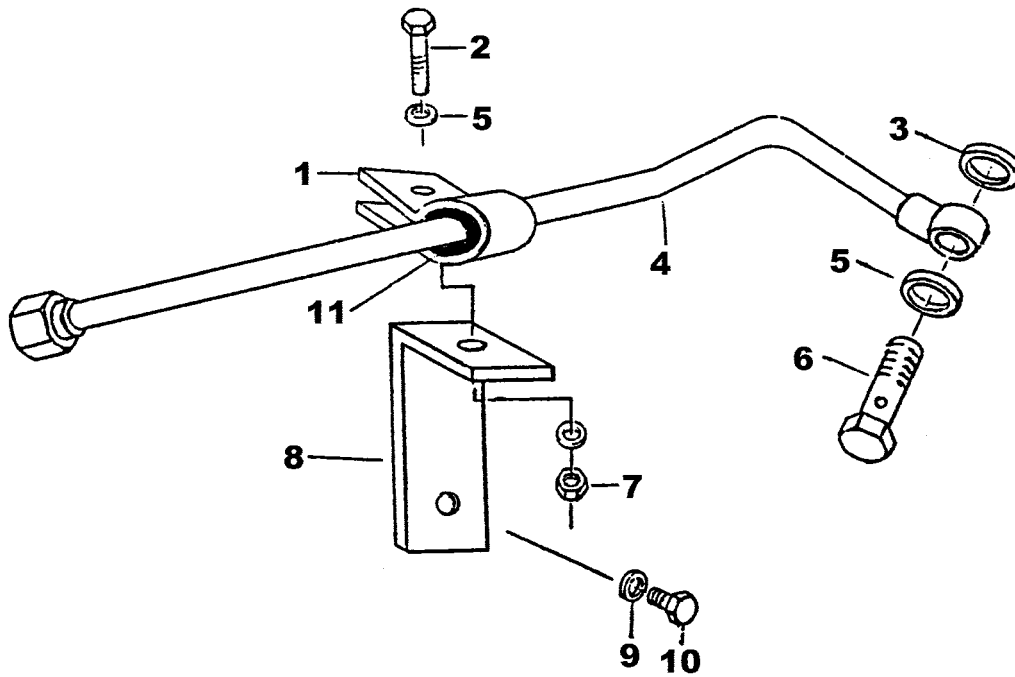
S/N	Drawing No.	Special data	Denomination	Qty.
1	0115 1220		Semi-rotary pump	1
2	4.234.0.355.718.4		Pipe connector	1
3	6.0200.05.0.0835	DIN933-M8×35-8.8	Hexagon bolt	2
4	0115 1297	DIN71511-30×53×2	Gasket	2
5	4.0455.08.0.1890	DIF-L10H	Simple valve	1
6	6.0216.01.0.0080	DIN127-8.8	Spring lock washer	2
7	6.0216.05.4.0080	DIN934-M8-m8	Hexagon nut	4
11	0112 3887	DIN2353-FL15	Threaded union	3
12	4000 2405		Oil line	1
13	6.0492.01.0.1824	DIN7603-A18×24	Sealing ring	1
14	0115 1055	DIN2353-CL15	Threaded union	1
15	1202 9947		Fastening rail	2
16	4000 0592		Bush	2
18	1202 9959		Flange	2
19	1202 9957		Connector	1
20	6.0492.01.0.2631	DIN7603-A26×31	Sealing ring	1
21	4202 9958		Suction pipe	1
24	0110 2800	DIN128-A10	Spring lock washer	2
25	4000 1512	DIN939-M10×50-8.8	Washer	2
26	6.0210.05.4.0100	DIN934-m10-m10	Hexagon nut	2



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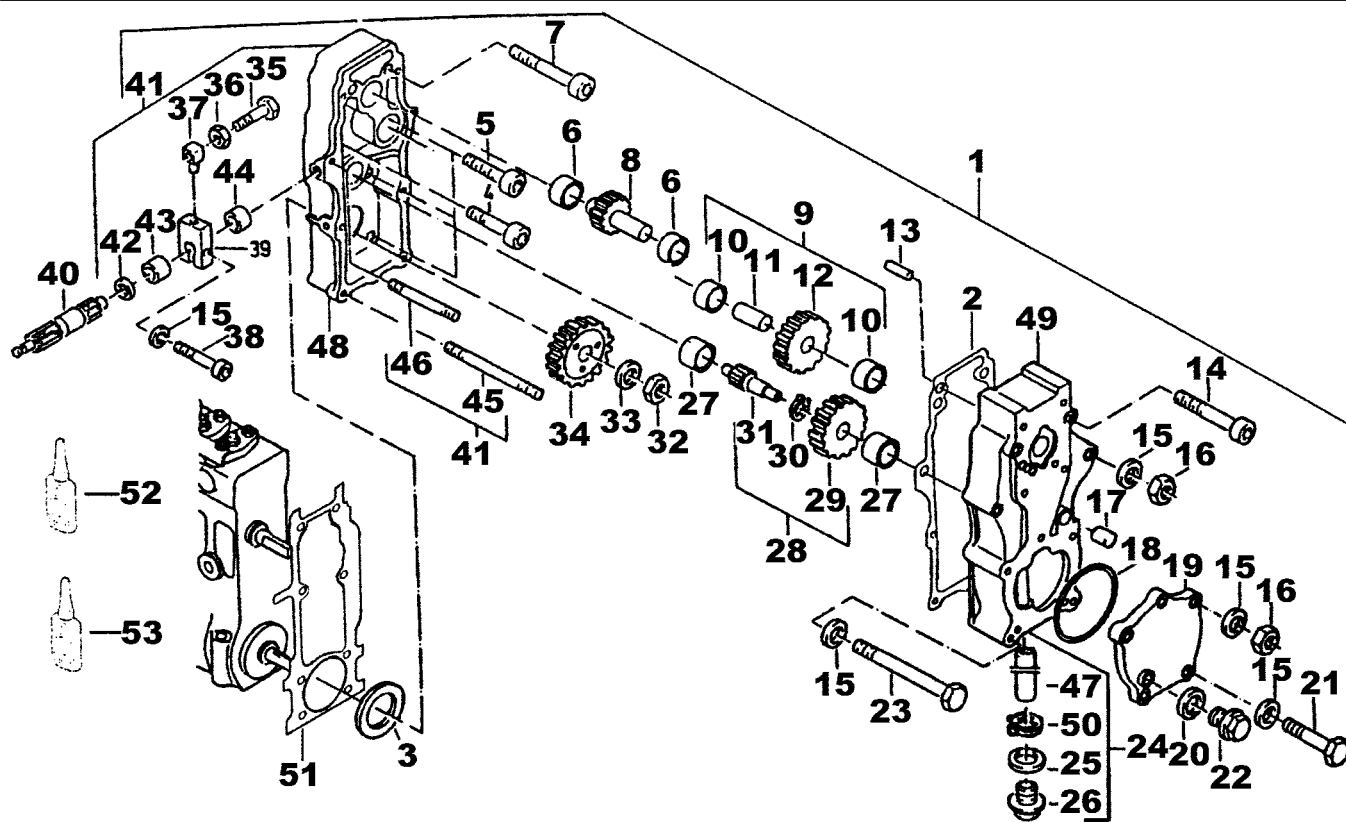


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Gearbox

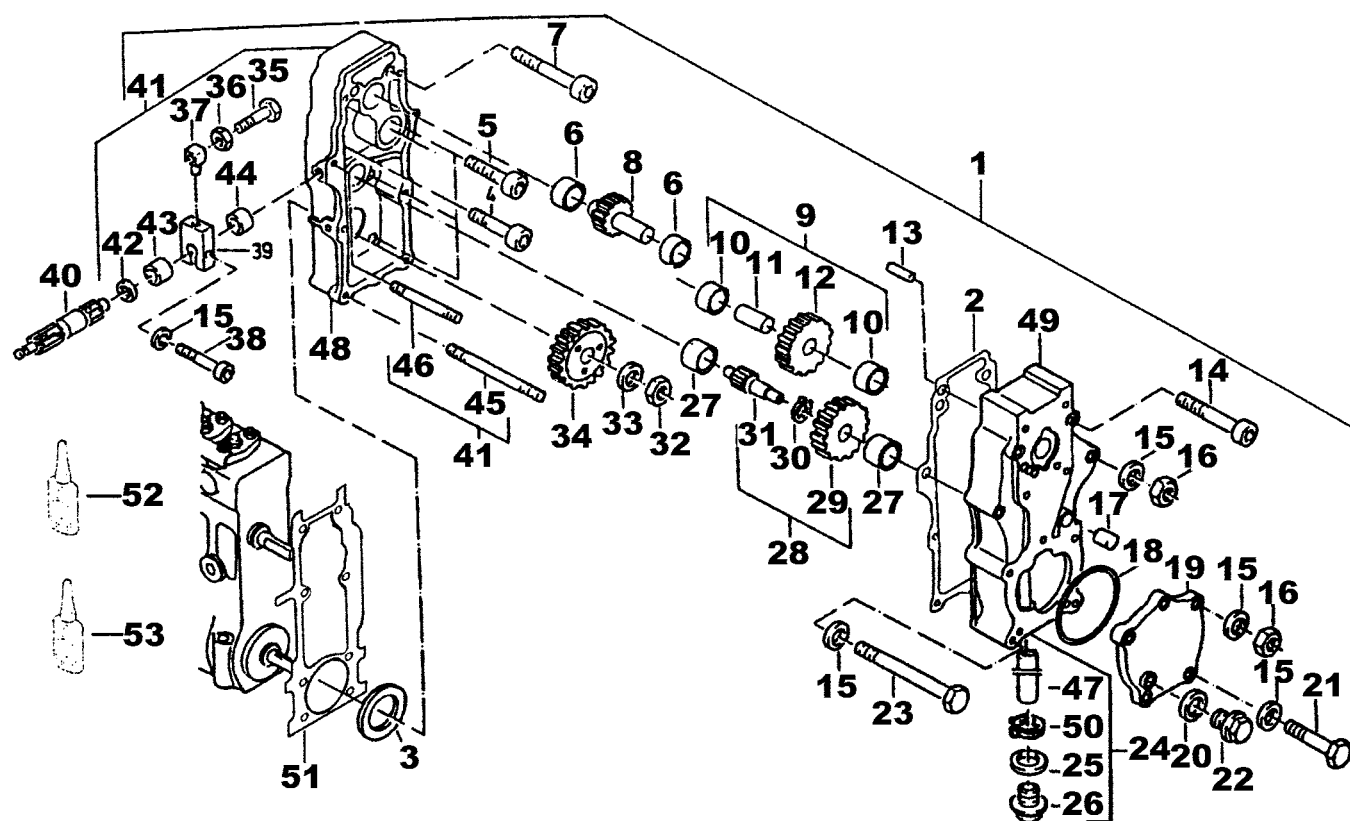
17 508 1195

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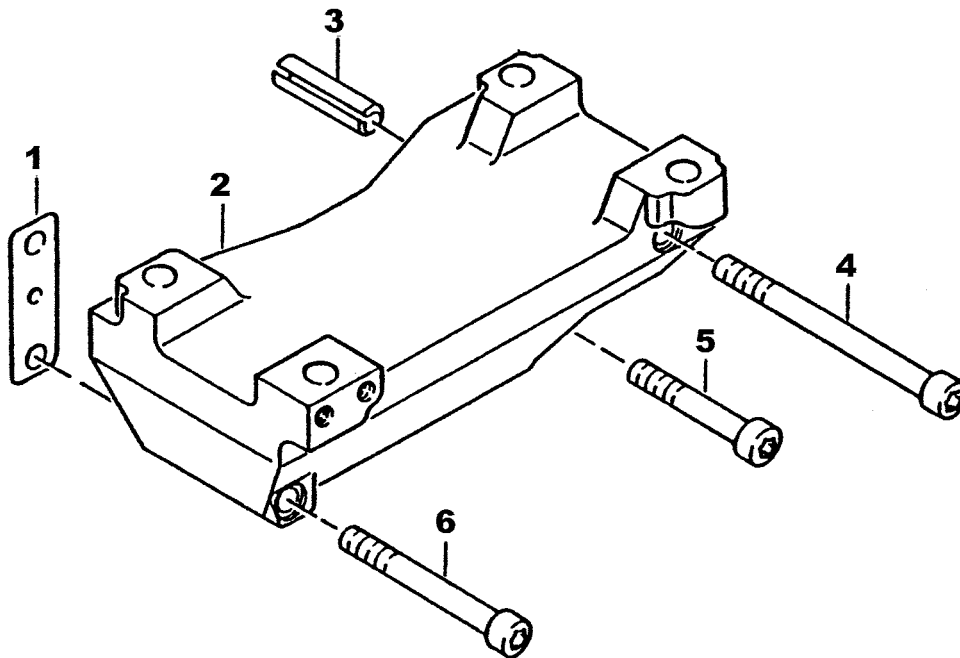
S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 9784		Gearbox	1
2	4000 0922		Sealing gasket	1
3	1202 9805		Shim	1
4	0115 1503	H2091-912-M8×50-12.9	Cheese head screw	1
5	6.0200.70.0.0825	DIN912-M8×25-10.9	Cheese head screw	5
6	1202 7446		Ball bear	2
7	6.0200.70.0.0845	DIN912-M8×45-10.9	Cheese head screw	2
8	1202 9806		Drive gear	1
9	1202 7500		Idler gear	1
10	1202 7446		Ball bear	2
11	1202 7502		Shaft	1
12	1202 7503		Idler gear	1
13	0110 5157	DIN7-8m6×20	Pin	2
14	0111 0536	DIN912-M6×50-10.9	Cheese head screw	2
15	6.0215.01.0.0064	DIN125-A6.4	Plain washer	10
16	0111 2811	DIN934-M6-8	Hexagon nut	4
17	1204 7193		Pin	1
18	0612 4757	H2927-74×4-NBR1-70	O-seal	1
19	1202 8040		Cover	1
20	0115 1319	DIN7603-A10×15-Cu	Sealing ring	1
21	6.0200.05.0.0620	DIN933-M6×20-8.8	Hexagon bolt	3

Gearbox



S/N	Drawing No.	Special data	Denomination	Qty.
22	0113 1075	DIN908-M10×1	Screw plug	1
23	0112 6974	DIN931-M6×65-8.8	Hexagon bolt	2
24	1202 9790		Gearbox	1
25	0110 2146	DIN7603-A10×15-Cu	Sealing ring	1
26	0111 0422	DIN908-M12×1.5-ST	Screw plug	1
27	0110 9024	DIN625-6201	Ball bear	2
28	1202 7504		Pinion shaft	1
29	1202 7503		Idler gear	1
30	0110 7730	DIN471-20×1.2	Circlip	1
31	1202 7506		Pinion shaft	1
32	6.0210.05.4.0120	DIN934-M12-10-A	Hexagon nut	1
33	6.0215.01.0.0130	DIN125-A13	Plain washer	1
34	1213 4827		Gear	1
35	1202 9808		Hexagon bolt	1
36	0115 1577	DIN934-M6×0.75-8-A4C	Hexagon nut	1
37	1202 9807		Guide bolt	1
38	6.0200.70.0.0625	DIN912-M6×25-10.9	Cheese head screw	1
39	1202 9809		Clamping lever	1
40	1202 9804		Shutdown shaft	1
41	1202 9786		Gearbox	1
42	1202 7516		Sealing ring	1
43	1202 7513		Bearing bush	1

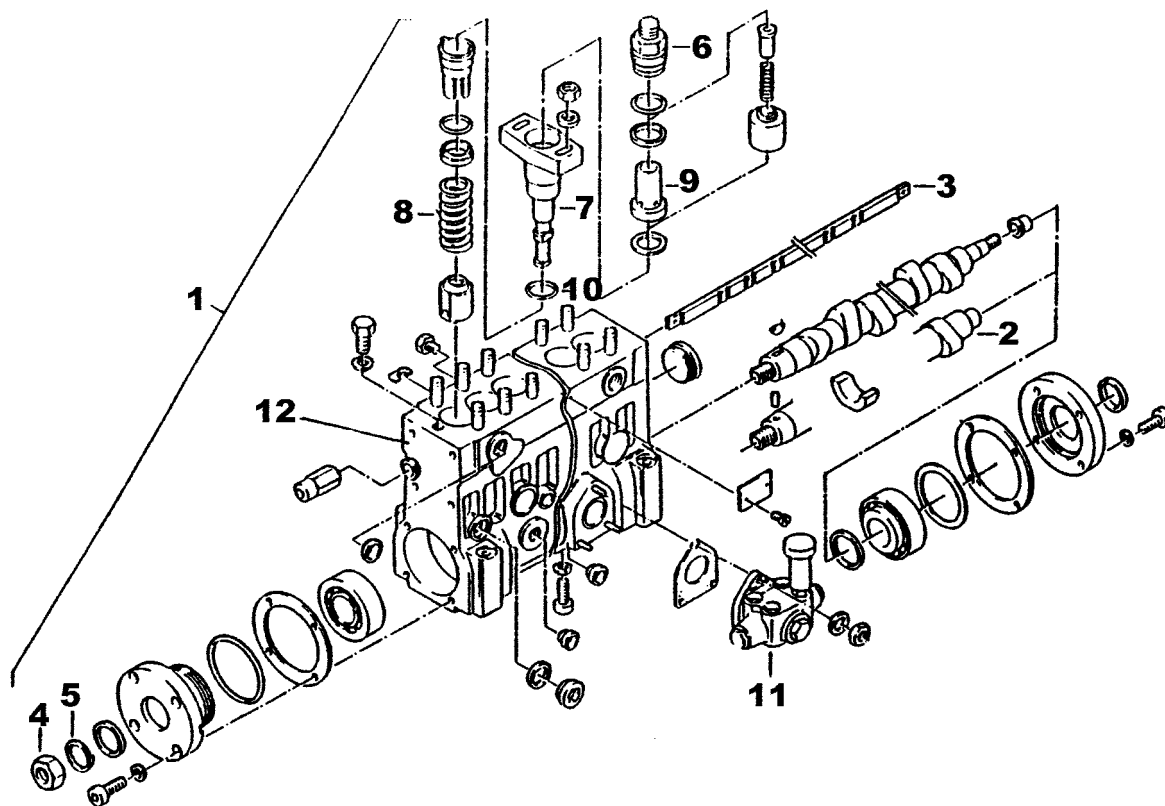
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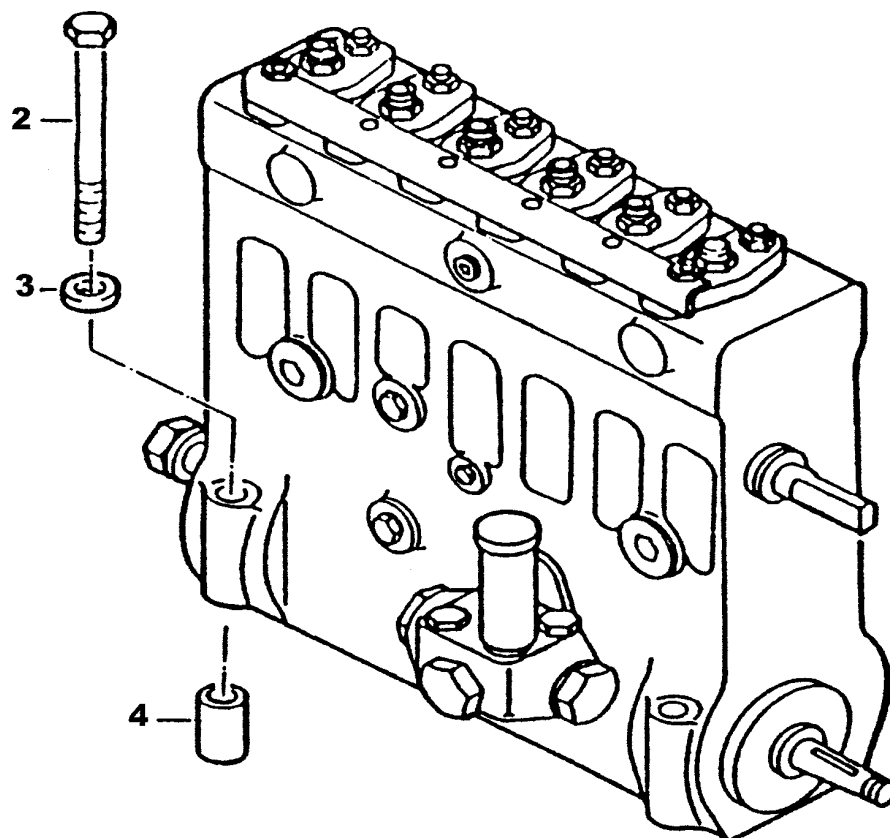
Injection pump

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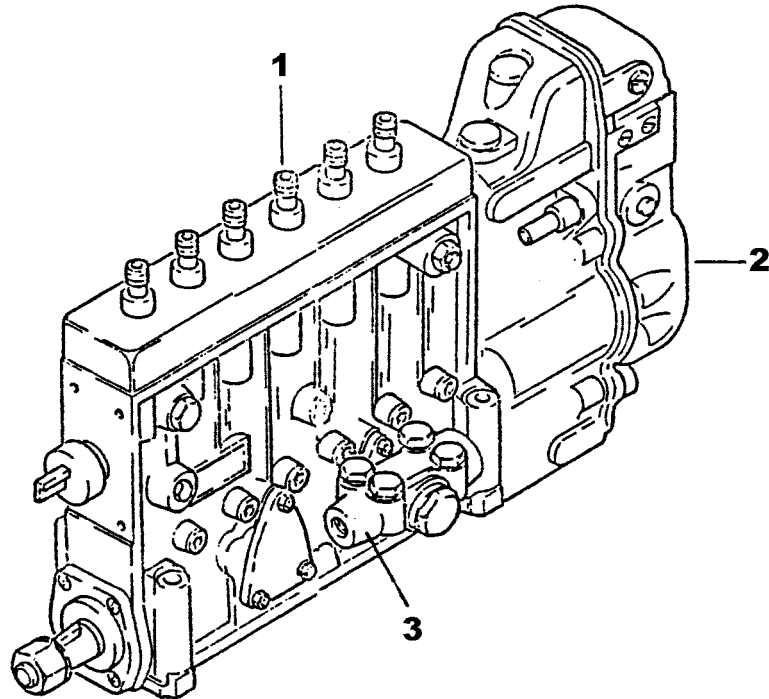
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S/N	Drawing No.	Special data	Denomination	Qty.
1	1212 8513		Injection pump	1
	4000 0824		Injection pump	1
2	1213 5266		Camshaft	1
3	1202 9783		Control rod	1
4	0111 2920	DIN934-M20×1.5-8	Hexagon nut	1
5	0110 2805		Spring ring	1
6	1202 9780		Threaded union	6
7	1212 8943		Pump element	6
8	1203 5013		Spring	6
9	1203 7563		Delivery valve	6
10	1203 8030		O-ring	6
11	1202 9778		Lift pump	1
	S2W/KF22/2		Lift pump	1
12	1202 9776		Hull	1

[illegible]

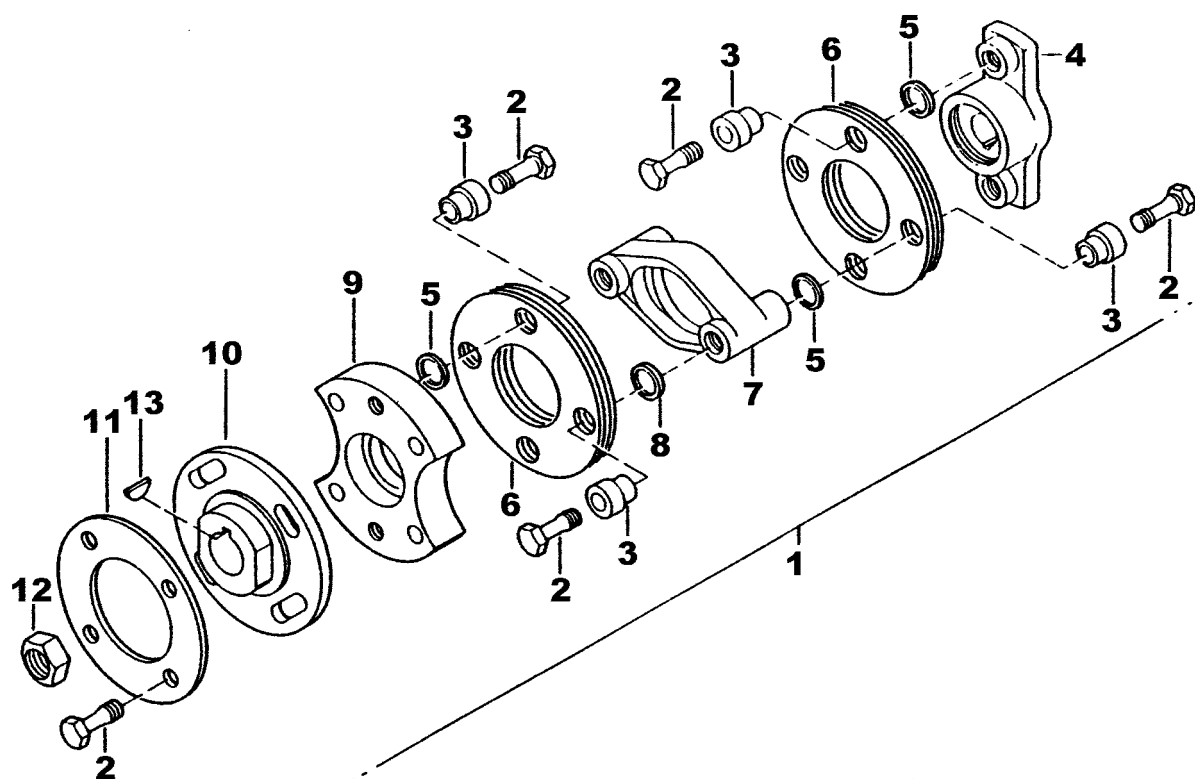


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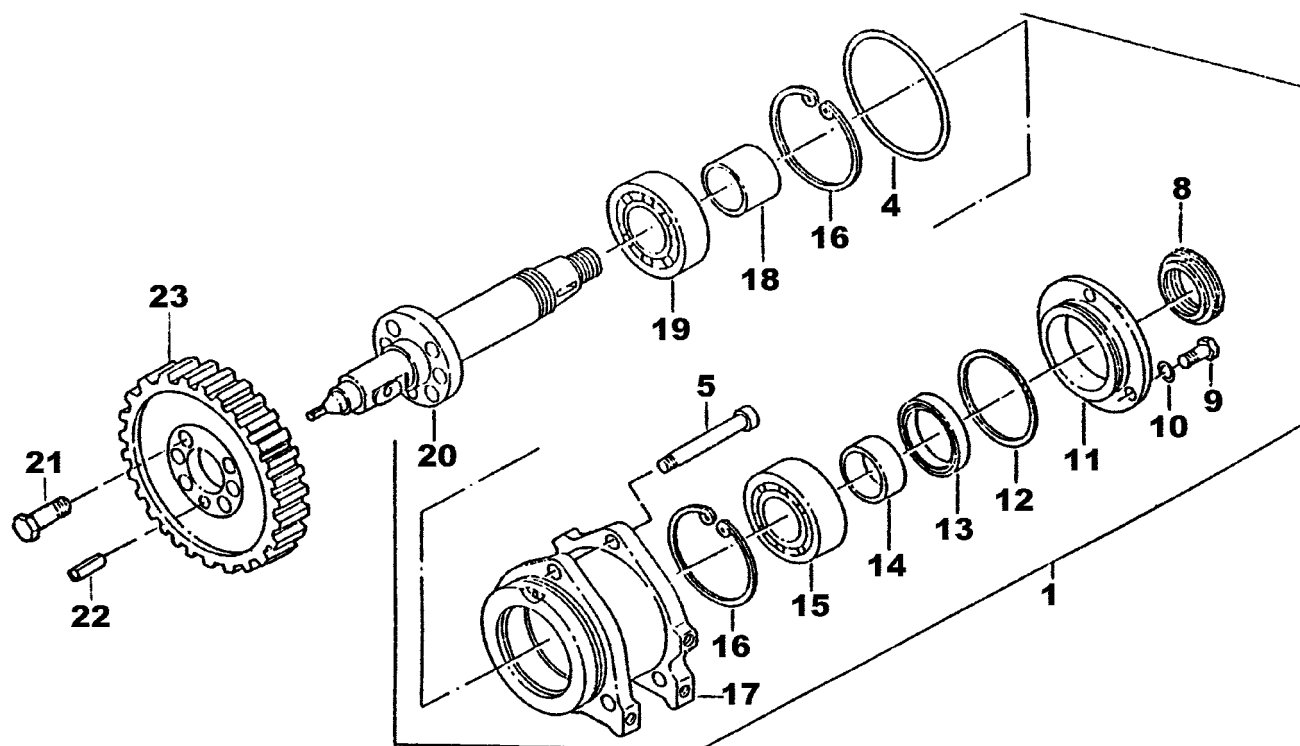
Coupling

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S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 9723		Multidisc clutch	1
2	1202 9730		Waisted bolt	12
3	1202 9725		Flanged bush	8
4	1202 9731		Flange	1
5	1202 9742	3.0mm	Ring	2
	1202 9743	3.5mm	Ring	2
	1202 9744	4.8mm	Ring	2
6	1202 9736		Clutch disc	8
7	1202 9728		Driver	1
8	1202 9726		Ring	8
9	1202 9738		Adjusting plate	1
10	1202 9733		Flange	1
11	1202 9727		Plain washer	1
12	0117 6651	WN4600-M20x1.5	Hexagon nut	1
13	0111 8333	DIN6888-6x9	Woodruff key	1



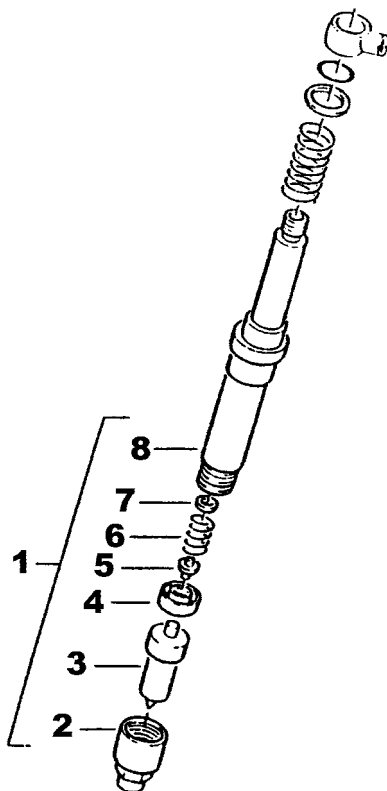
S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 9750		Bearing housing	1
4	0117 6818	WN8504-90×3-NBR70	O-ring	1
5	6.0200.70.0.1090	DIN912-M10×90-10.9	Cheese head screw	3
8	1213 5177		Grooved nut	1
9	6.0200.05.0.0820	DIN933-M8×20-8.8	Hexagon bolt	3
10	6.0215.01.0.0084	DIN125-8.4	Disc	3
11	1202 9761		Hanged socket	1
12	1202 9758		O-ring	1
13	1202 9752	45×60×7-FP	Shaft seal	1
14	1202 9760		Slip ring	1
15	0110 9223	DIN628-3207	Ball bearing	1
16	0110 7850	DIN472-72×2.5	Circlip	2
17	1202 9762		Bearing housing	1
18	1202 9759		Spacer bush	1
19	0115 1217	DIN5412-NJ2207E	Par.roll.bearing	1
20	1202 9754		Flanged shaft	1
21	6.0200.05.0.1025	DIN933-M10×25-8.8	Hexagon bolt	6
22	0113 2414	DIN7436-8×20	Pin	1
23	1213 6419		Drive gear	1



Injector

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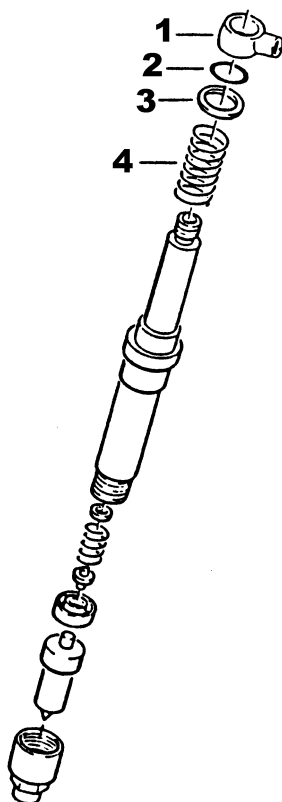
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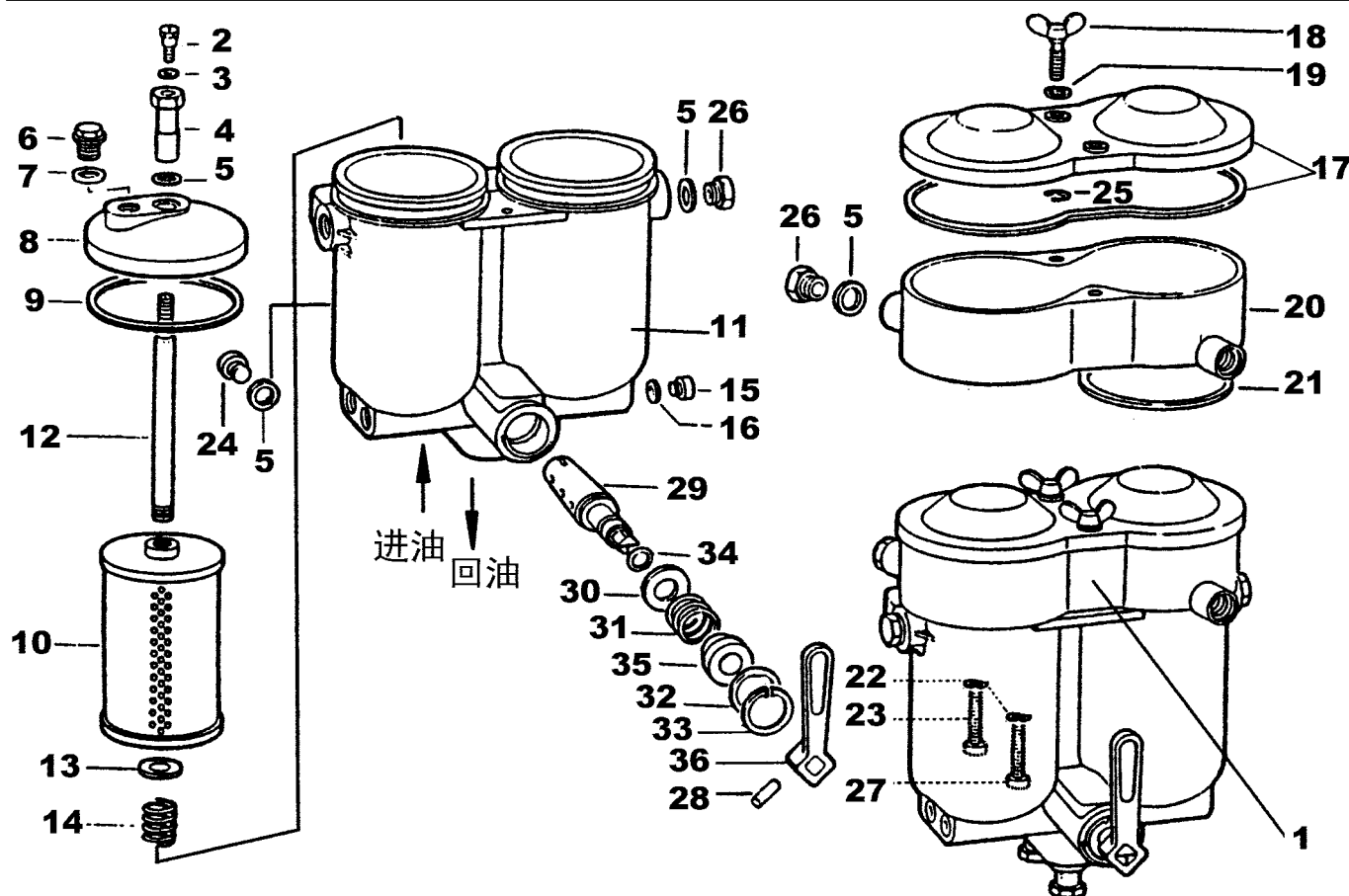
S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 9681		Injector	1
2	1202 9710		Nozzle cap nut	1
3	1202 9685		Nozzle	1
4	1202 9711		Spacer	1
5	1202 9712		Thrust	1
6	1202 9713		Compression spring	1
7	1202 9687	1.0mm	Shim	1
8	1202 9683		Nozzle holder	1
950	1202 9690	1.05mm	Shim	1
951	1202 9691	1.10mm	Shim	1
952	1202 9692	1.15mm	Shim	1
953	1202 9693	1.20mm	Shim	1
954	1202 9694	1.25mm	Shim	1
955	1202 9695	1.30mm	Shim	1
956	1202 9696	1.35mm	Shim	1
957	1202 9697	1.40mm	Shim	1
958	1202 9698	1.45mm	Shim	1
959	1202 9699	1.50mm	Shim	1
960	1202 9700	1.55mm	Shim	1
961	1202 9701	1.60mm	Shim	1
962	1202 9702	1.65mm	Shim	1
963	1202 9703	1.70mm	Shim	1

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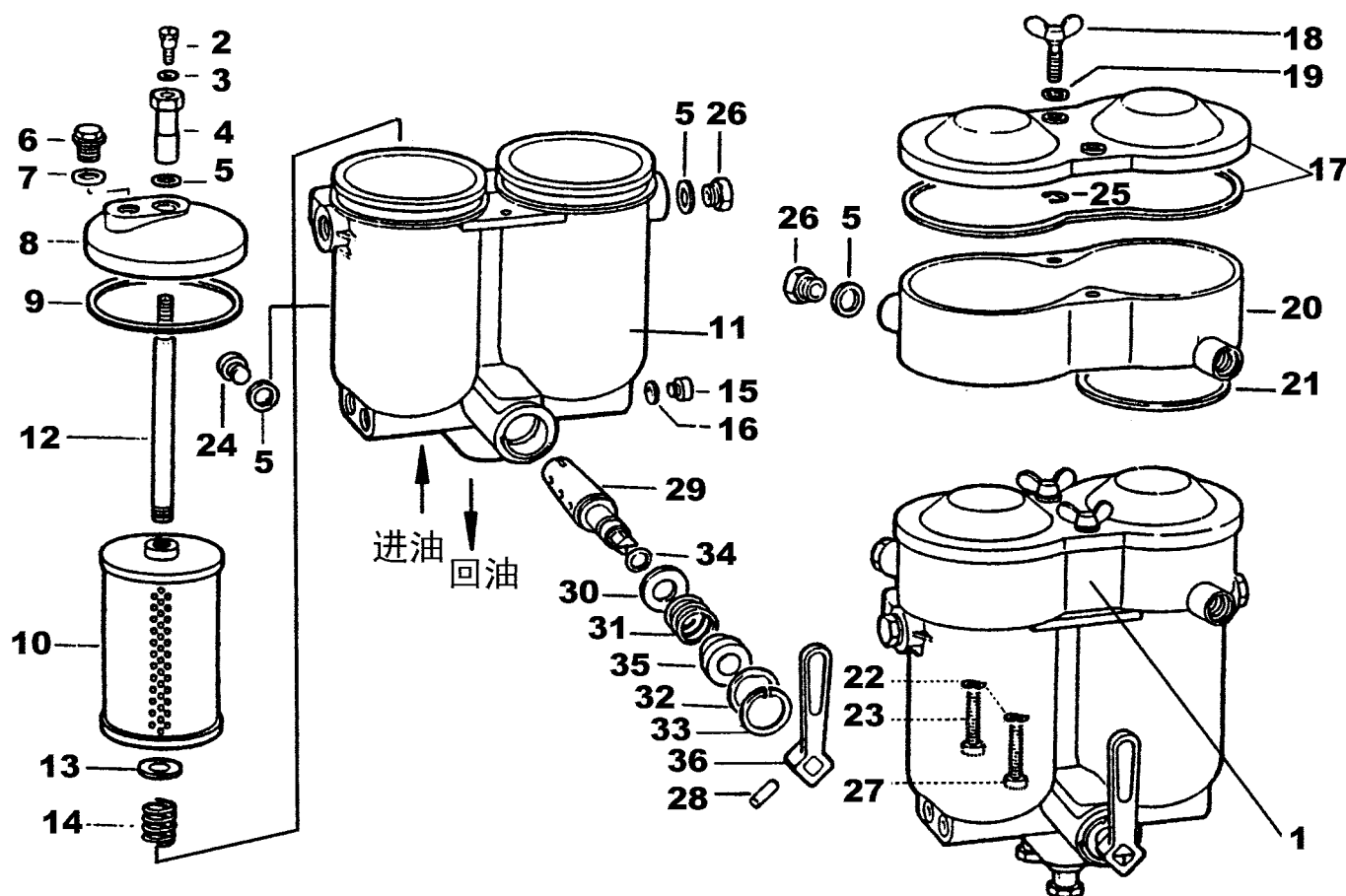
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Fuel filter



S/N	Drawing No.	Special data	Denomination	Qty.
1	6.0541.02.2.0058		Fuel filter	1
2	4.234.0.355.747.4	M6	Screw plug	2
3	6.0492.01.0.0610	A6×10	Sealing ring	2
4	4.234.0.355.749.4		Central screw	2
5	6.0492.01.0.1418	A14×18	Sealing ring	6
6	6.0206.05.0.1815	AM18×1.5	Screw plug	2
7	6.0492.01.0.1822	A18×22	Sealing ring	2
8	4.234.0.740.709.4		Cover	2
9	4.0493.10.4.0973	97×3B	O-ring	2
10	6.0541.14.0.0003	120L/h	Filter cartridge	2
11	4.234.0.740.708.4		Fuel filter body	1
12	4.234.0.355.911.4		Pipe	2
13	4.0215.02.0.0145	14.5	Washer	2
14	4.0240.17.0.0245		Pressure spring	2
15	4.0206.30.0.1010	M10×1	Screw plug	4
16	6.0492.01.0.1013	A10×13.5	Sealing ring	4
17	4.234.0.740.707.5		Cover	1
18	4.234.0.351.904.5	M8×25	Wing screw	2
19	6.0215.01.0.0084	8	Washer	2
20	4.234.0.740.710.5		Container	2

Fuel filter



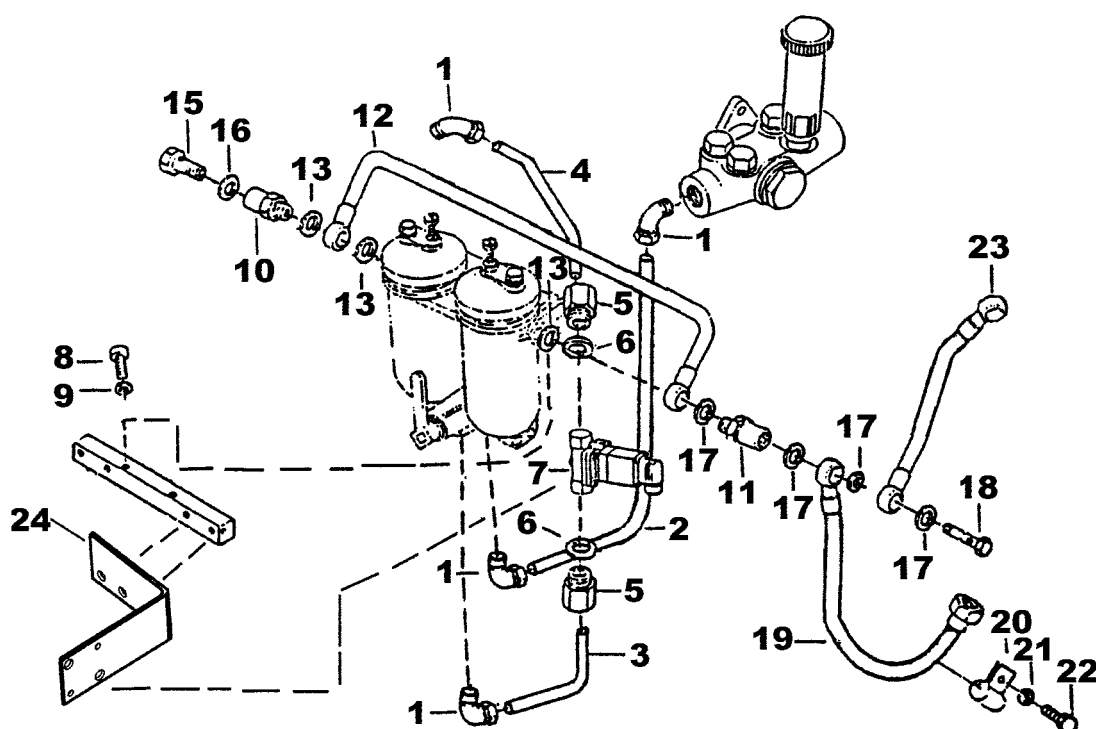
S/N	Drawing No.	Special data	Denomination	Qty.
21	4.234.0.855.805.4	103.5×3.5×3	Sealing ring	4
22	6.0216.03.1.0080	B8	Spring washer	4
23	6.0200.70.0.0855	M8×55-10.9	Cheese head screw	1
24	4.0206.30.0.1415	M14×1.5	Screw plug	2
25	4.0305.30.0.0007	GB895.2-86-7	Locking ring	2
26	6.0206.05.0.1415	AM14×1.5	Screw plug	4
27	6.0200.70.0.0830	M8×30-10.9	Cheese head screw	1
28	6.0220.15.0.0408	4×8	Sleeve pin	1
29	4.234.0.472.802.4		Plug of cock	1
30	6.0215.01.0.0190	19	Washer	1
31	4.0240.23.0.0316		Pressure spring	1
32	4.0493.10.4.0323	32×3	O-ring	1
33	6.0305.02.0.0032	GB893-1-86-32	Locking ring	1
34	4.0493.10.4.1052	15×2.5	O-ring	1
35	4.234.0.330.908.4		Bush	1
36	4.234.0.018.202.4		Plug key	1

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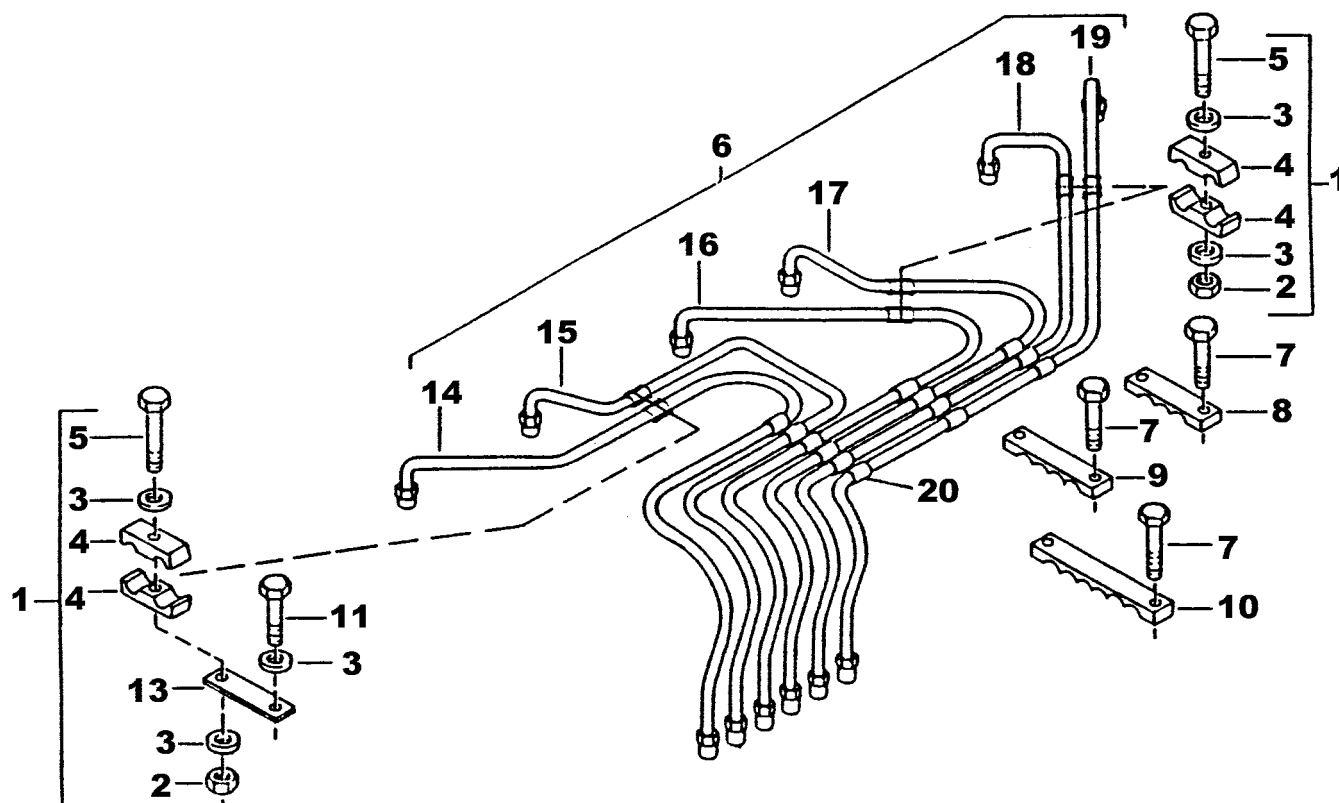
Holder for fuel filter

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S/N	Drawing No.	Special data	Denomination	Qty.
1	0112 3887		Angle union	4
2	4000 3283		Fuel pipe	1
3	4000 3284		Fuel pipe	1
4	4000 3284		Fuel pipe	1
5	4000 0203		Screw fitting	2
6	6.0492.01.0.2126	DIN7603-A21×26-Cu	Sealing ring	2
7	4000 0200		Solenoid valve	1
8	6.0200.70.0.1235	DIN912-A12×35-10.9	Cheese head screw	2
9	6.0216.01.0.0120	DIN127-B12	Spring lock washer	2
10	4000 0230		Overflow valve	1
11	4000 0227		Overflow valve	1
12	4000 0233		Connecting pipe	1
13	6.0492.01.0.1420	DIN7603-A21×20-Cu	Sealing ring	4
14	6.234.0.939.021.4		Flexible pipe	1
15	6.0404.32.0.0006	DIN7623-A6	Hollow screw	1
16	0111 8673	DIN7603-A12×15.5-Cu	Sealing ring	1
17	6.0492.01.0.0814	DIN7603-A8×14-Cu	Sealing ring	4
18	0111 9230	H3102-D4/5M	Hollow screw	1
19	1202 9668		Flexible pipe	1
*20	0122 0008	H3223-B10×20	Pipe clip	1
*21	6.0216.01.0.0080	DIN127-A8	Spring lock washer	1
*22	6.0200.05.0.0815	DIN933-M8×16-8.8	Hexagon bolt	1
23	4000 3313		Fuel pipe	1
24	4000 3256		Bracket	1

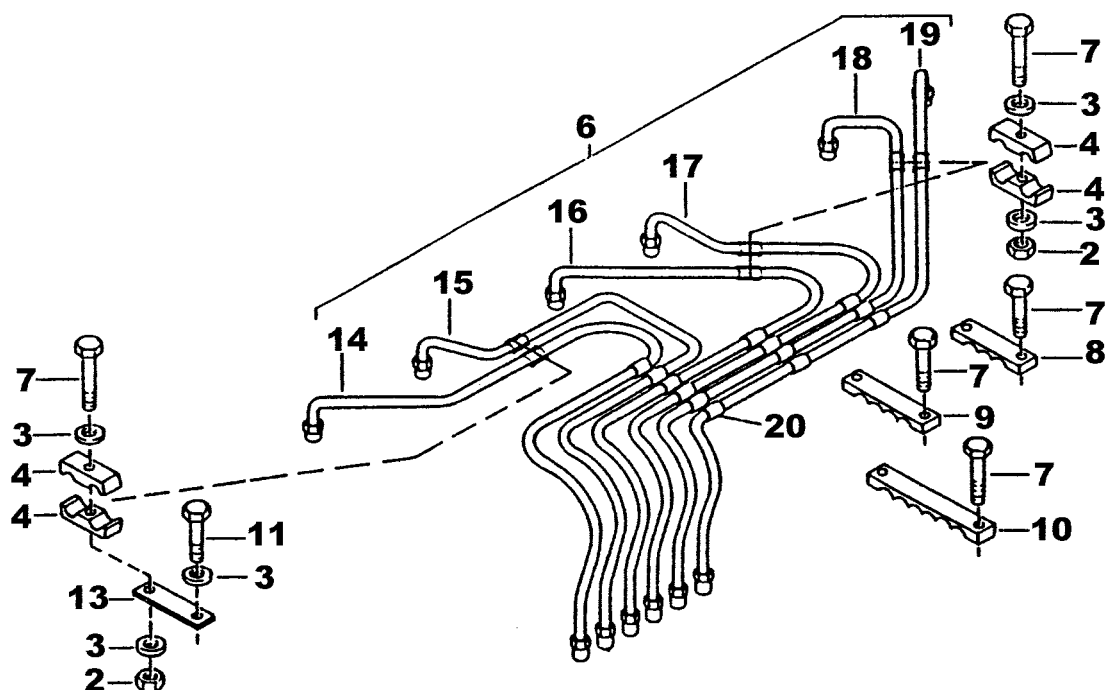


S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 9877		Pipe clamp	3
2	0111 2811	DIN934-M6-8	Hexagon nut	3
3	6.0215.01.0.0064	DIN125-6.4	Plain washer	7
4	1202 9879		Pipe clamp	6
5	0111 2275	DIN933-M6x35-8.8	Hexagon bolt	3
6	1202 9880		Pressure pipe	1
7	6.0200.05.0.0630	DIN933-M6x30-8.8	Hexagon bolt	6
8	1202 9894		Pipe clamp	1
9	1202 9896		Pipe clamp	1
10	1202 9898		Pipe clamp	1
11	6.0200.05.0.0612	DIN933-M6x12-8.8	Hexagon bolt	1
13	1202 9900		Bracket	1
14	1202 9890		Pressure pipe	1
15	1202 9892		Pressure pipe	1
16	1202 9882		Pressure pipe	1
17	1202 9884		Pressure pipe	1
18	1202 9886		Pressure pipe	1
19	1202 9888		Pressure pipe	1
20	4000 0217		Rubber washer	19

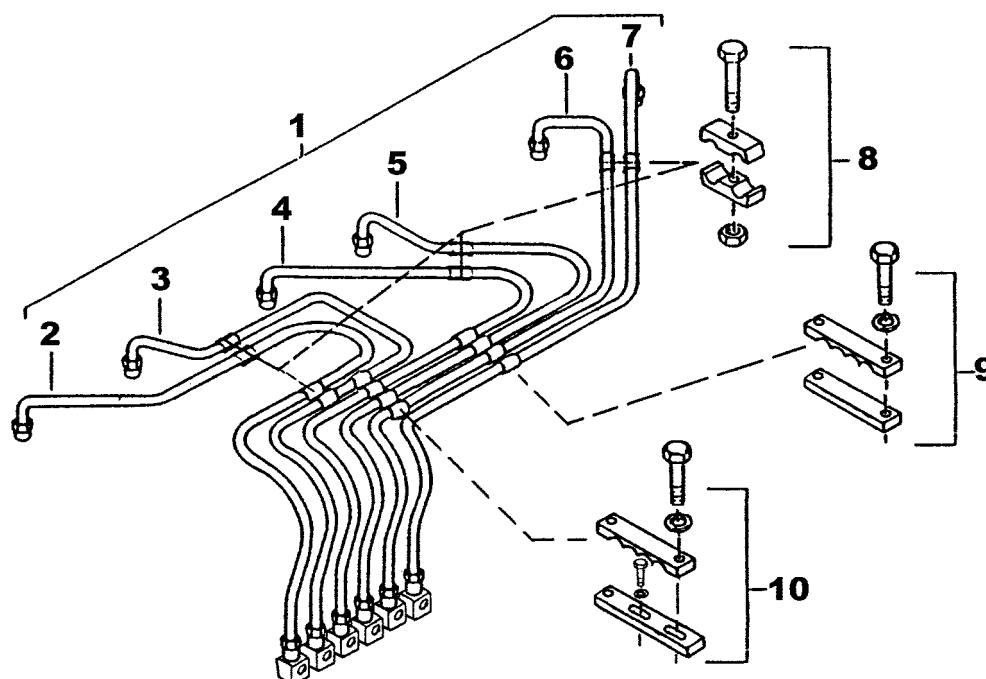
Fuel pipe

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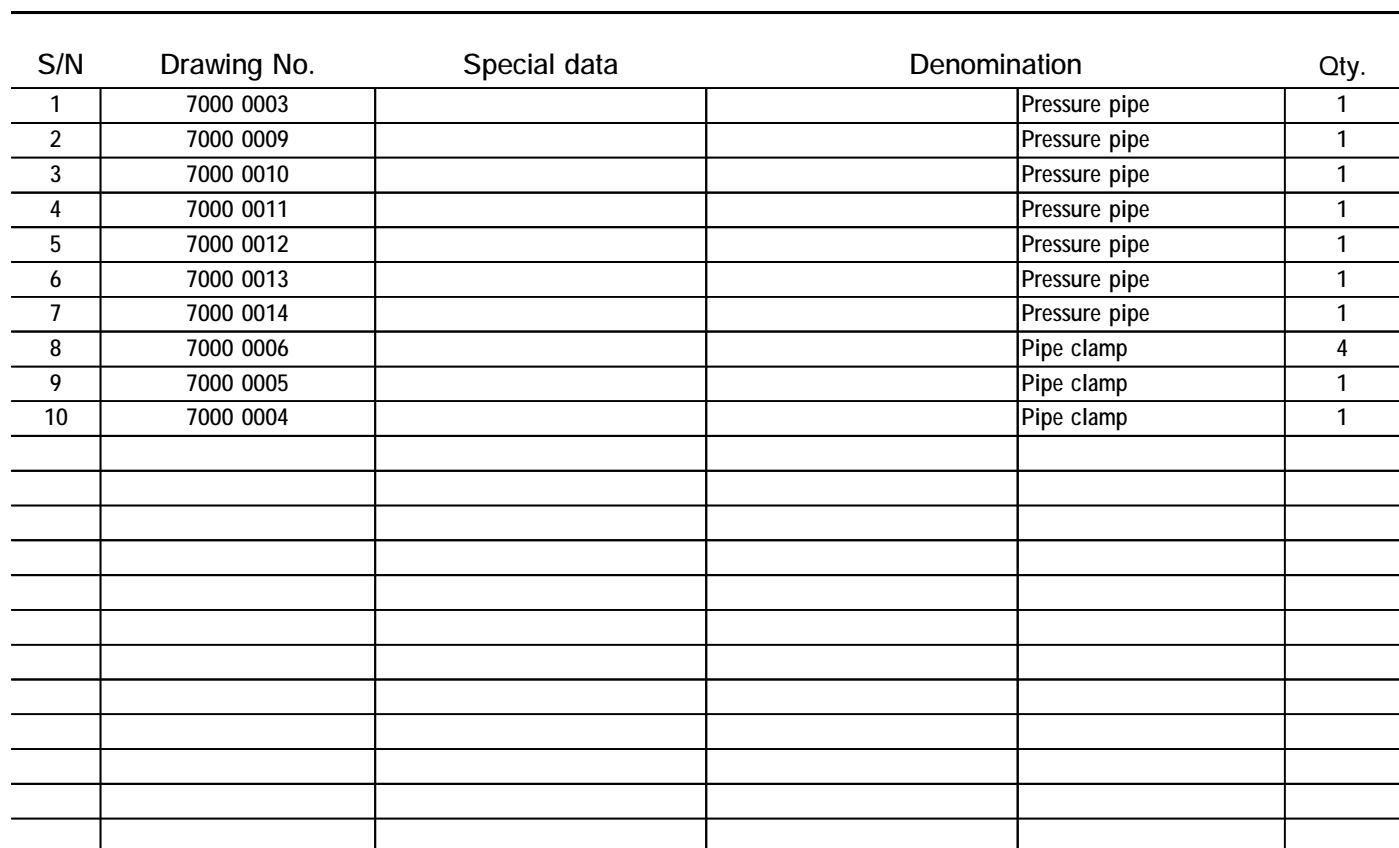
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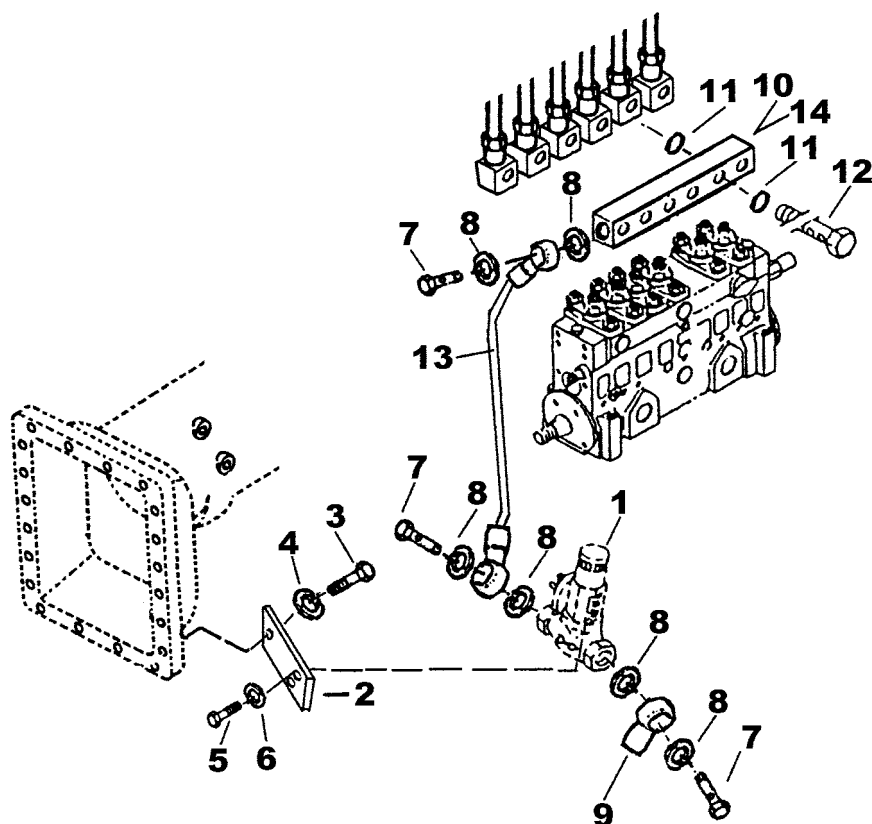


S/N	Drawing No.	Special data	Denomination	Qty.
2	0111 2811	DIN934-M6-8	Hexagon nut	3
3	6.0215.01.0.0064	DIN125-6.4	Plain washer	7
4	1202 9879		Pipe clamp	6
6	4000 0600		Pressure pipe	1
7	6.0200.05.0.0635	DIN933-M6×30-8.8	Hexagon bolt	9
8	1202 9894		Pipe clamp	1
9	1202 9896		Pipe clamp	1
10	1202 9898		Pipe clamp	1
11	6.0200.05.0.0612	DIN933-M6×12-8.8	Hexagon bolt	1
13	1202 9900		Bracket	1
14	4000 0211		Pressure pipe	1
15	4000 0212		Pressure pipe	1
16	4000 0213		Pressure pipe	1
17	4000 0214		Pressure pipe	1
18	4000 0215		Pressure pipe	1
19	4000 0216		Pressure pipe	1
20	4000 0217		Rubber washer	19

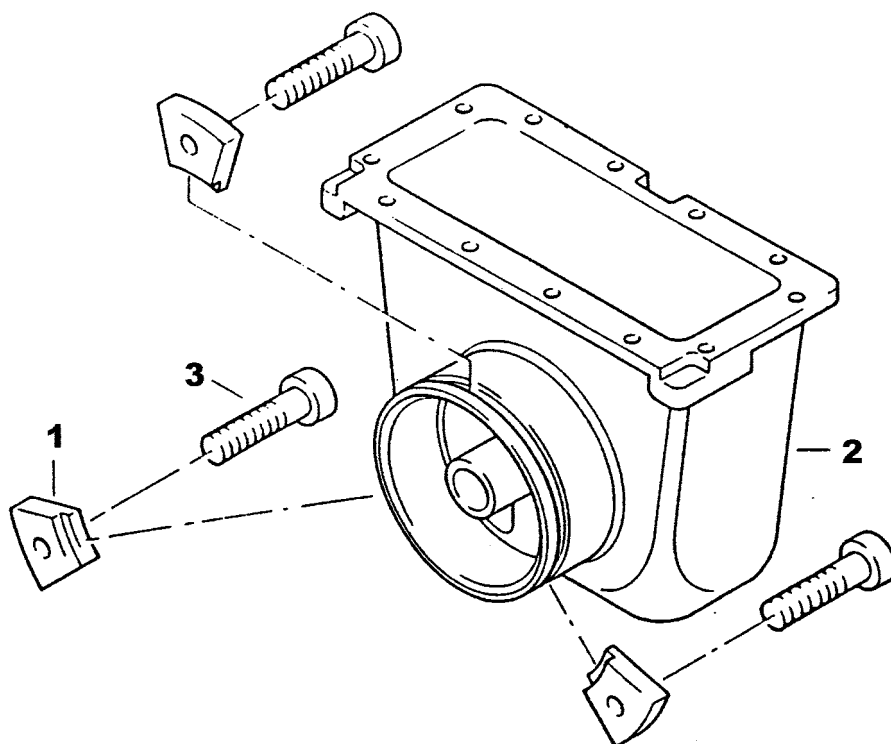


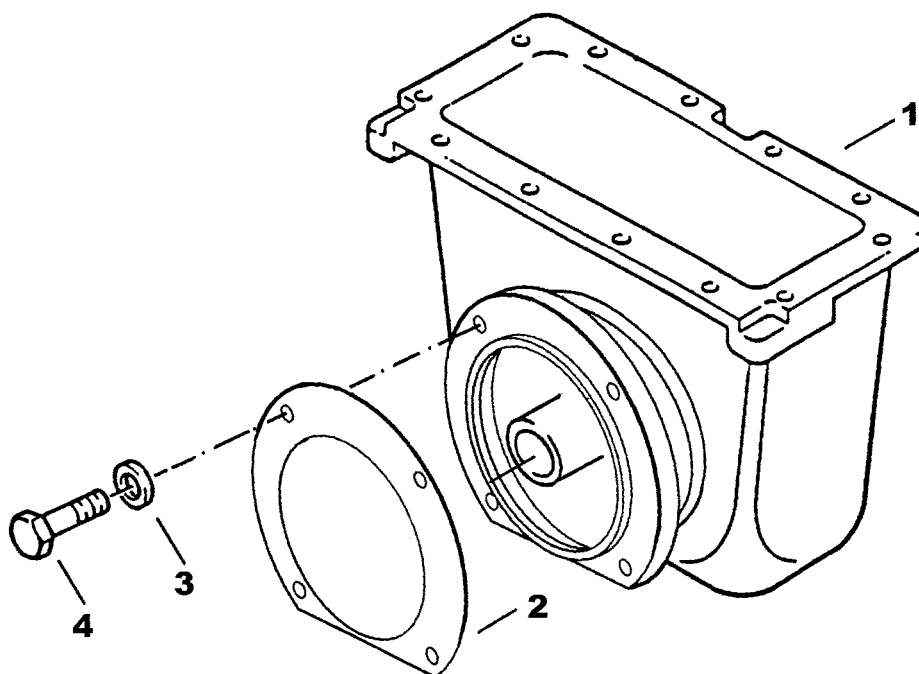
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S/N	Drawing No.	Special data	Denomination	Qty.
1	4.000.9.060.718.4	GL-3W/24VDC-15	Alarm device	1
2	7000 0028		Bracket	1
3	6.0200.01.0.0855	M8×55	Hexagon bolt	1
4	6.0216.01.0.0100	B10	Spring lock washer	1
5	6.0200.05.0.0510	M5×10-8.8	Screw fitting	2
6	6.0216.03.0.0050		Spring lock washer	2
7	6.0404.32.0.0004	DIN7623-A4	Hollow screw	3
8	6.0492.01.0.1014	A10×14DIN7603-Cu	Sealing ring	6
9	6.0404.30.0.0004		Pipe fitting	1
*10	7000 0007		Drain pipe	1
11	0115 1323	A8×13DIN7603-Cu	Sealing ring	12
12	6.0404.32.0.0023		Hollow screw	6
13	7000 0008		Branch pipe	1
**14	7000 0029		Drain pipe	1

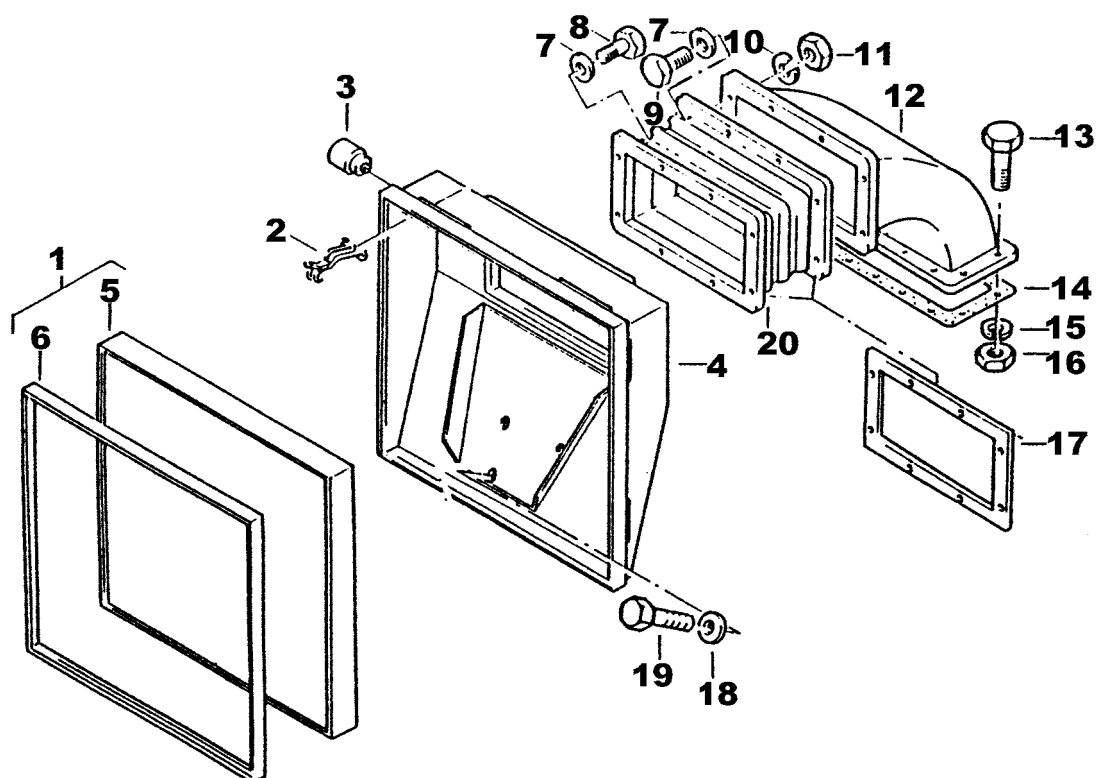
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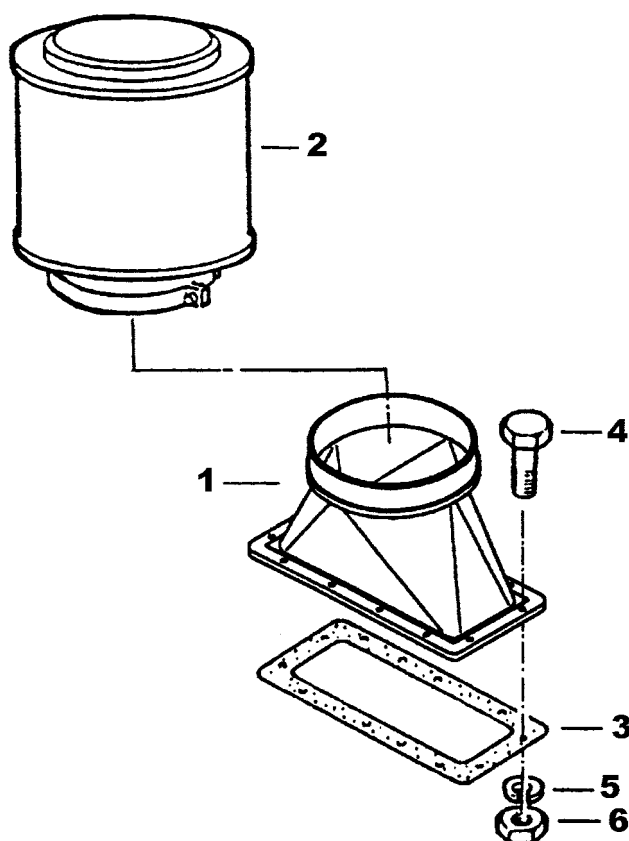
Dry-air filter

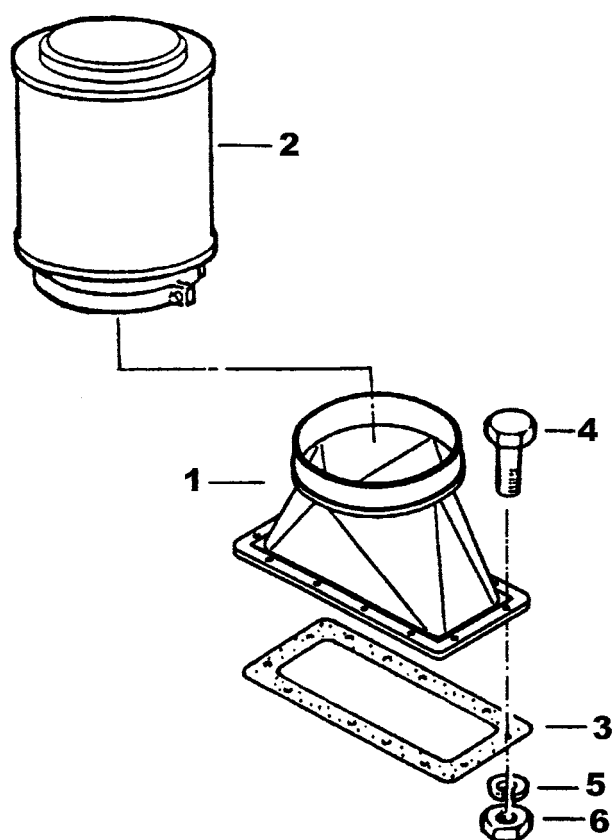
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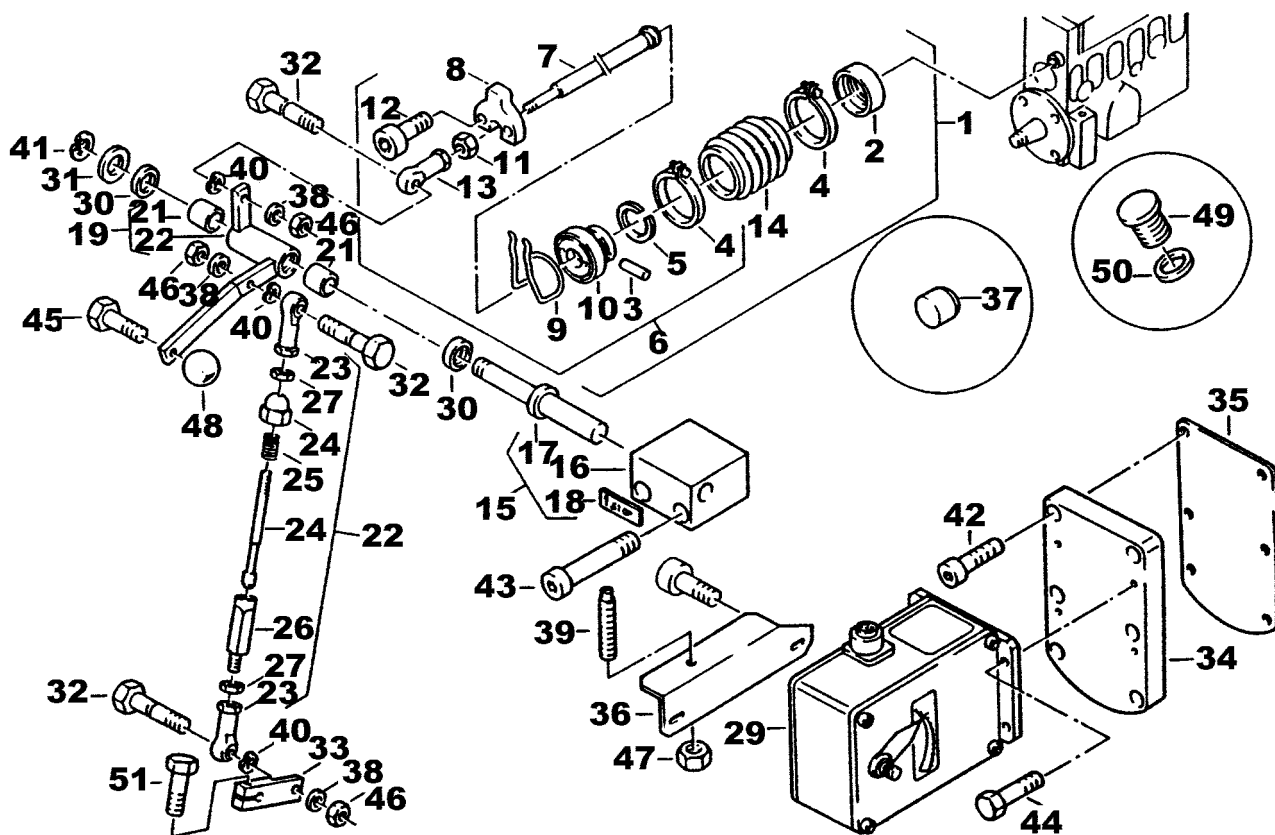


S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 9530		Cleaner element	1
2	1202 9522		Clamp	8
3	0216 9355		Service gauge	1
4	1212 8252		Housing	1
5	1203 9532		Cleaner element	1
6	1202 9534		Frame	1
7	6.0215.01.0.0084	DIN125-A8.4	Washer	16
8	6.0200.05.0.0820	DIN933-M8×20-8.8	Hexagon bolt	8
9	6.0200.05.0.0835	DIN933-M8×35-8.8	Hexagon bolt	8
10	6.0216.01.0.0080	DIN127-B8	Spring lock washer	8
11	0111 2823	DIN934-M8-8	Hexagon nut	8
12	1203 0698		Air cowling	1
13	6.0200.05.0.0630	DIN933-M6×30-8.8	Hexagon bolt	12
14	1203 0705		Gasket	1
15	0110 7189	DIN128-A6	Spring lock washer	12
16	0111 2811	DIN934-M6-8	Hexagon nut	12
17	1203 0703		Flange	2
18	6.0215.01.0.0130	DIN125-A13	Washer	3
19	6.0200.05.0.1215	DIN933-M12×16-8.8	Hexagon bolt	3
20	1203 0696		Bellows	1

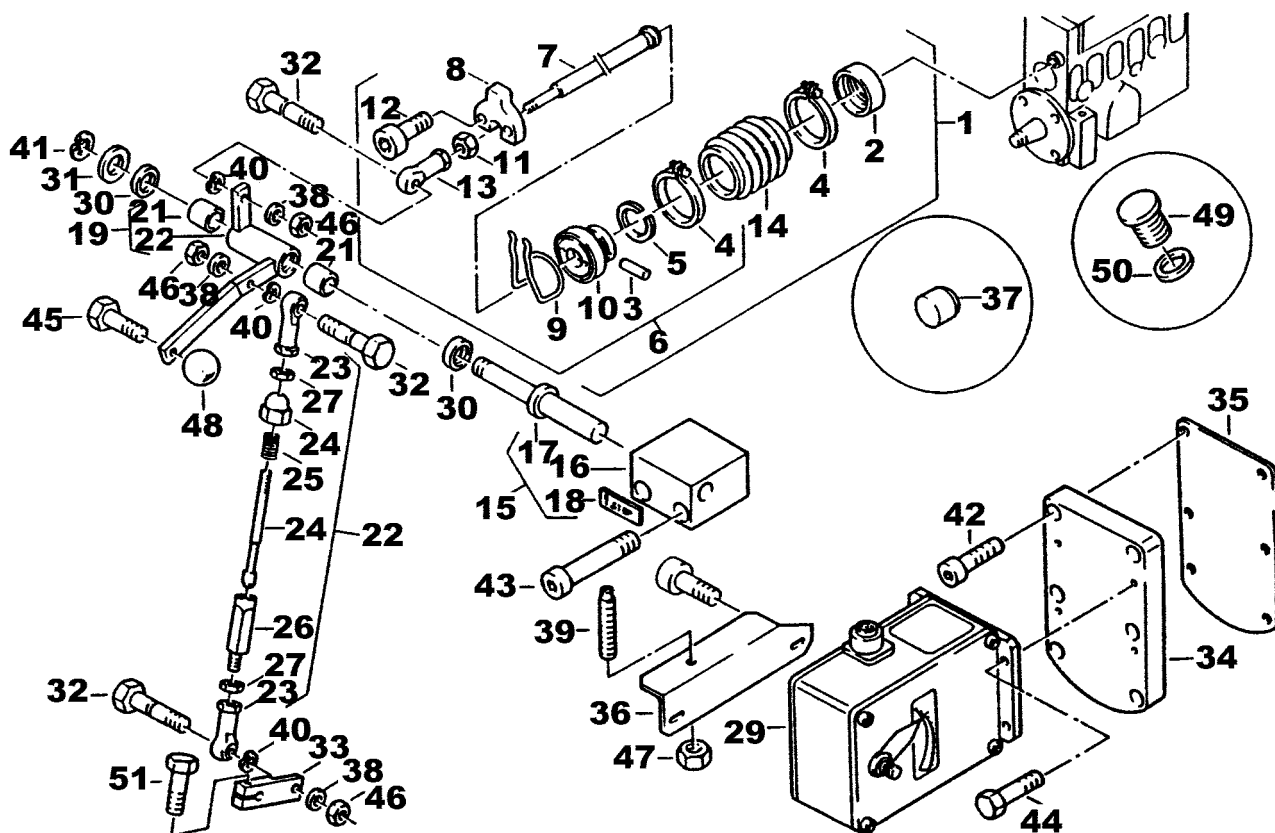
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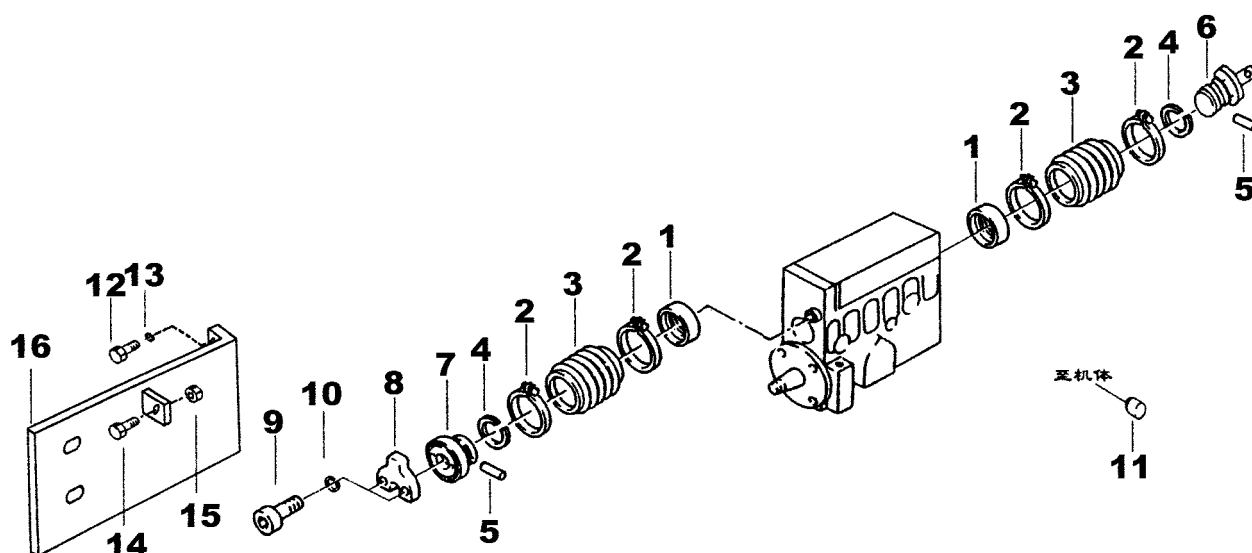




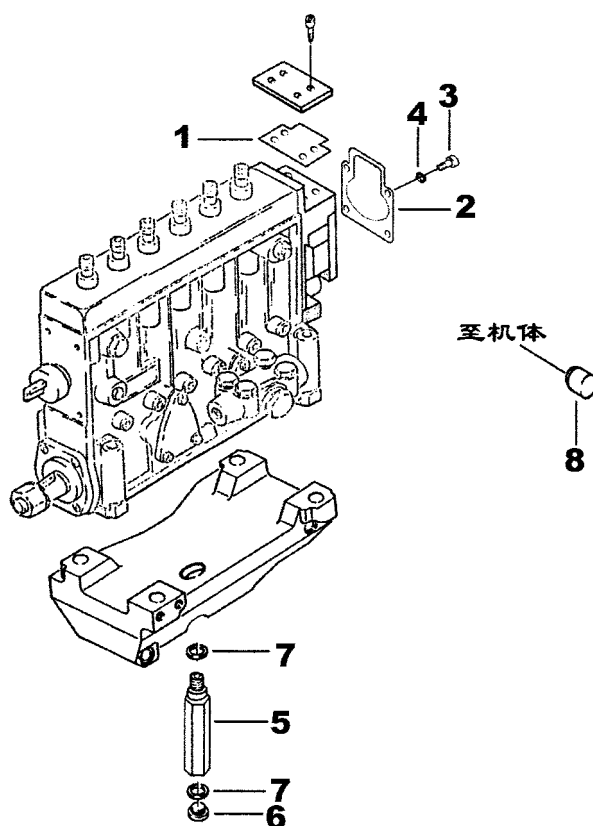
S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 1281		Clutch	1
2	1202 9855		Sleeve	1
3	0110 5134	DIN7-6m6×24	Parallel pin	1
4	0117 6832	WN8505-S39/7-ST	Hose clip	2
5	0110 4747	DIN7993-A28	Spring	1
6	1203 1283		Clutch	1
7	1203 1285		Control rod	1
8	1202 9853		Coupling piece	1
9	1202 9854		Spring	1
10	1202 9856		Coupling piece	1
11	0111 2823	DIN934-M8-8	Hexagon nut	1
12	0115 1484	DIN912-M5×12-10.9	Cheese head screw	2
13	1202 7535		Joint fitting	1
14	1202 8420		Bellows	1
15	1203 1290		Retainer	1
16	1203 1294		Retainer	1
17	1203 1293		Axle	1
18	1203 1292		Plate	1
19	1203 1295		Lever	1
20	1203 1297		Lever	1
21	1202 7513		Bearing bush	1
22	1203 1299		Lever	1



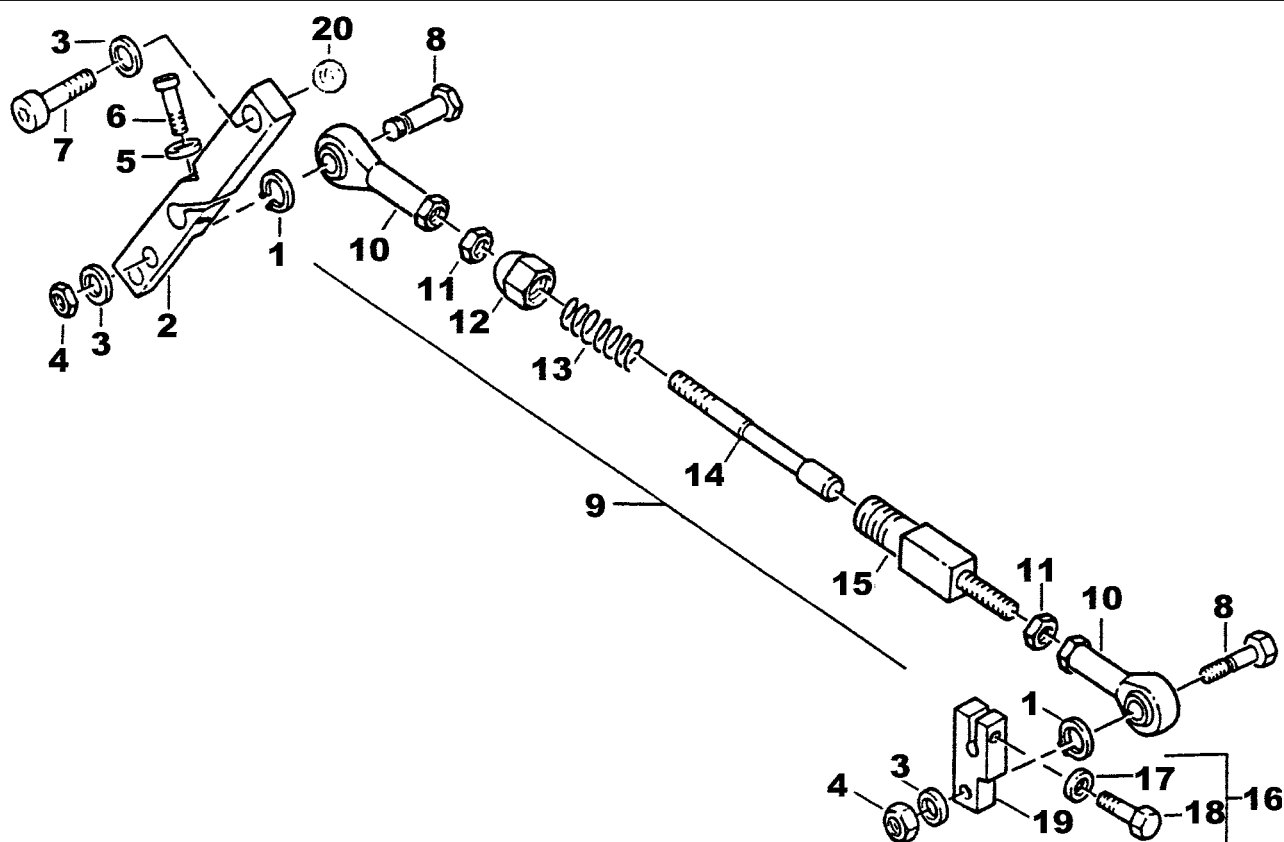
S/N	Drawing No.	Special data	Denomination	Qty.
23	1202 7535		Joint fitting	2
24	1203 1302		Piston rod	1
25	1203 1301		Compression spring	1
26	1202 7537		Spring sleeve	1
27	0111 2823	DIN934-M8-8	Hexagon nut	2
28	1202 7538		Hexagon nut	1
29	1203 8784		Governor	1
30	1202 7516		Sealing ring	2
31	1203 7303		Washer	1
32	1202 9831		Fitted bolt	3
33	1208 8015		Clamping lever	1
34	1208 8140		Interm. plate	1
35	1208 8141		Gasket	1
36	1208 8142		Angle plate	1
37	1204 7193		Pin	1
38	0115 1019	DIN125-8.4	Washer	3
39	0115 1181	DIN417-M6x50-5.8	Grub screw	1
40	0110 7713	DIN471-8x0.8	Circlip	3
41	1202 8321	DIN471-12x1	Circlip	1
42	6.0200.70.0.0820	DIN912-M8x20-10.9	Cheese head screw	6
43	0115 1506	DIN912-M8x60-10.9	Cheese head screw	2
44	6.0200.05.0.0616	DIN933-M6x16-8.8	Hexagon bolt	4



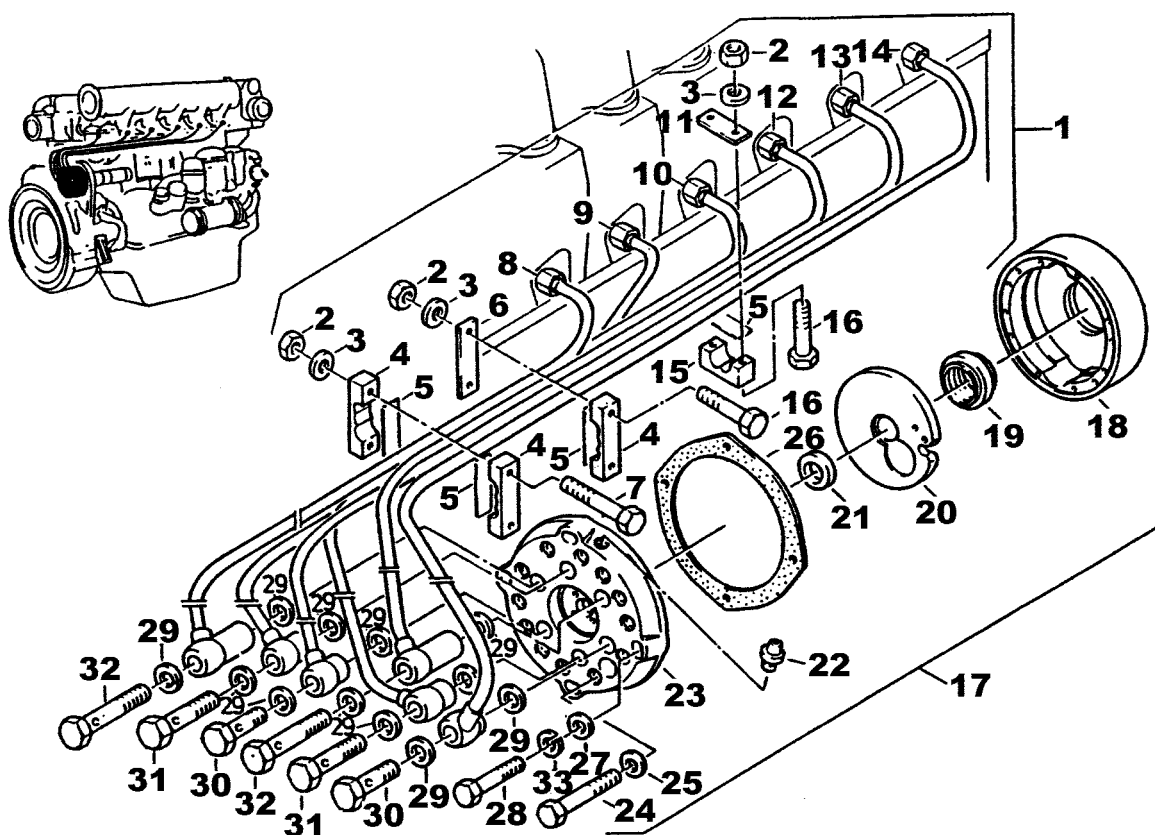
S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 9855		Sleeve	2
2	0117 6832		Hose clip	4
3	1202 8420		Bellows	2
4	0110 4747	DIN7993-A28	Spring	2
5	0110 5134	DIN76-m6x24	Parallell pin	2
6	4000 2043		Coupling piece	1
7	1202 9856		Coupling piece	1
8	4000 0832		Coupling piece	1
9	6.0200.70.0.0512	DIN912-M5x12-10.9	Cheese head screw	2
10	6.0216.01.0.0050	B5 DIN127	Spring ring	2
11	4000 3115		Block up head	1
12	6.0200.05.0.0825	DIN933-M8x25-8.8	Hexagon bolt	2
13	6.0216.01.0.0080	DIN127-B8	Spring lock washer	2
14	6.0200.05.0.0640	DIN933-M6x40-8.8	Hexagon bolt	1
15	6.0210.05.4.0060	DIN934-M6-10-A	Hexagon nut	1
16	4000 0831		Bracket	1

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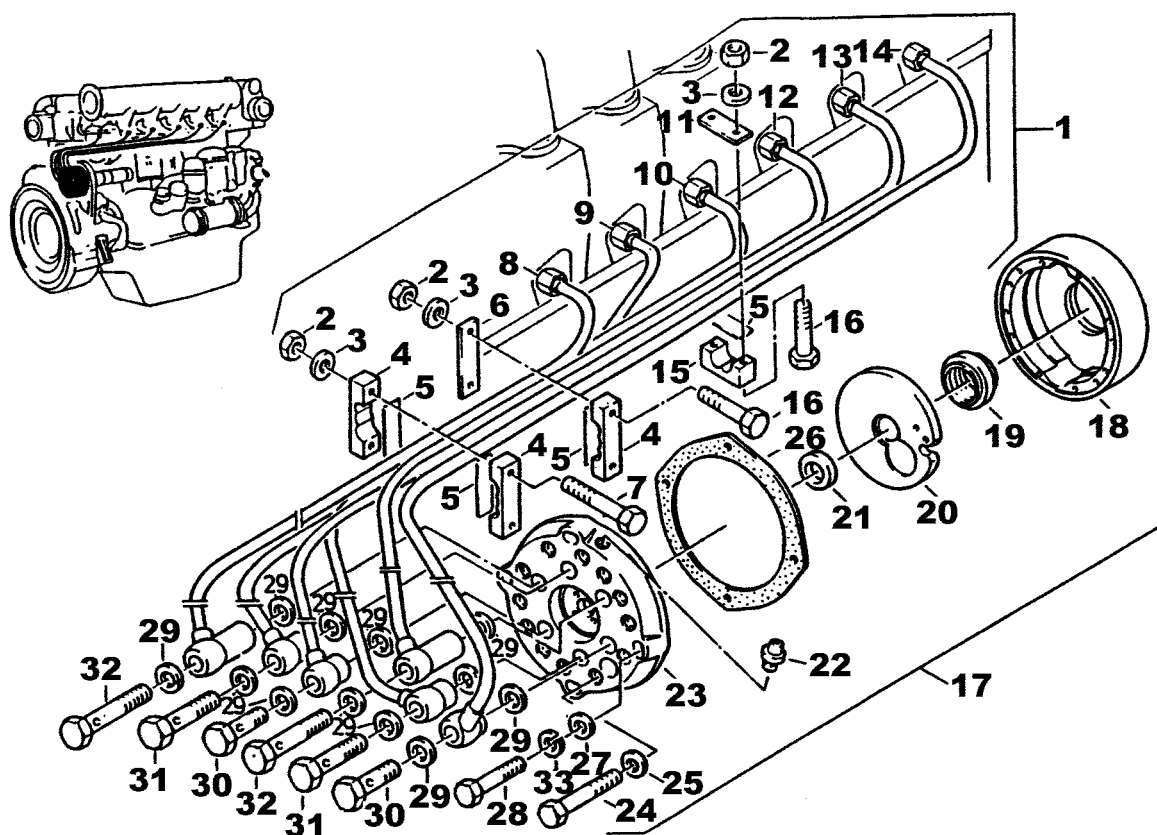
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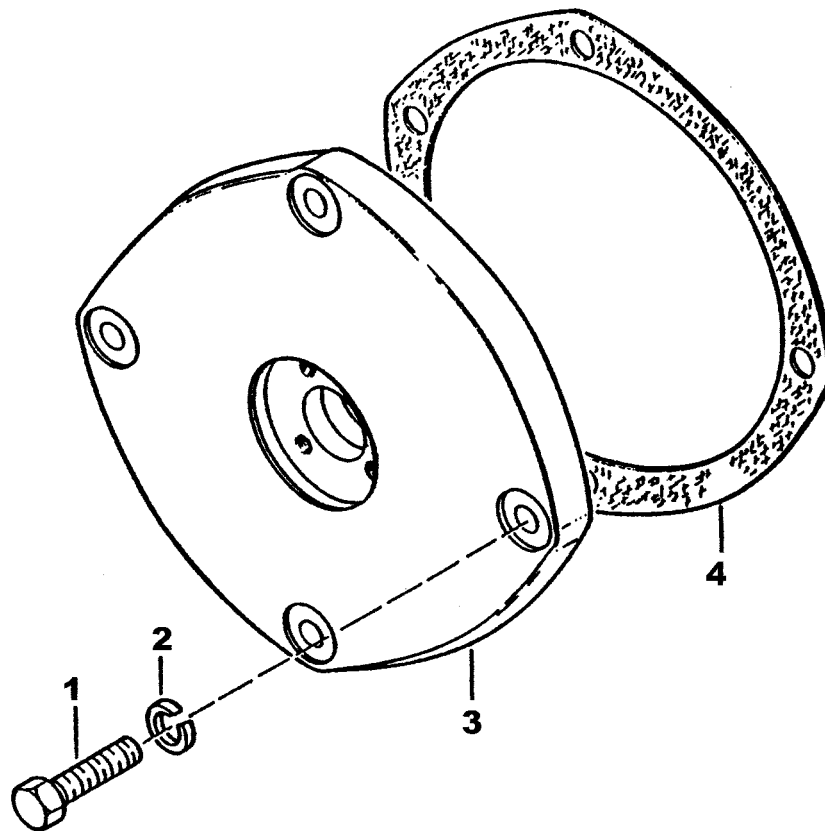


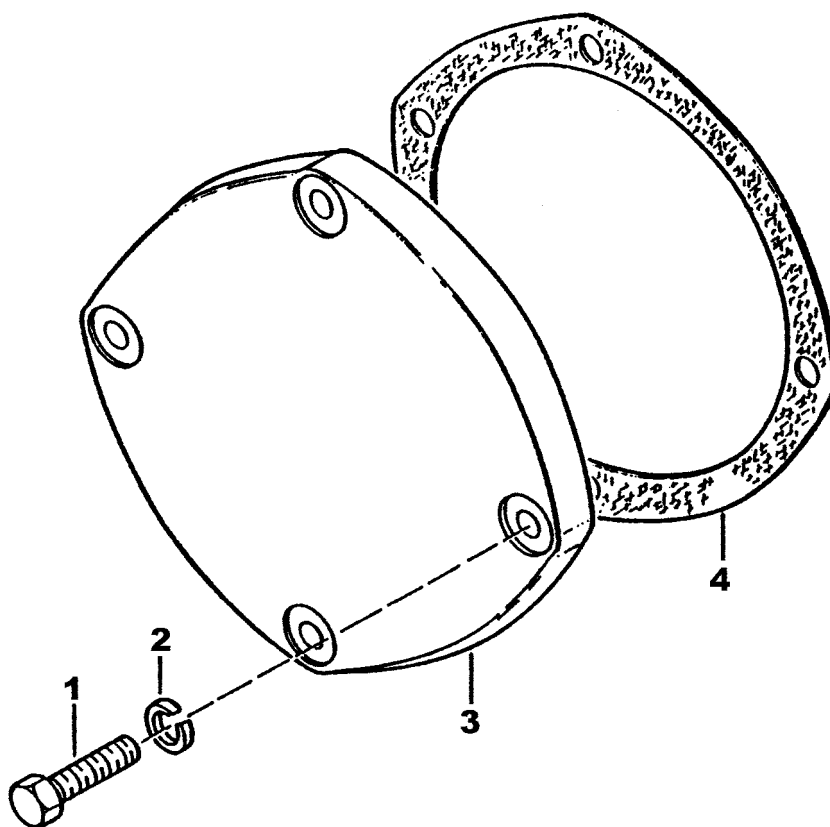
S/N	Drawing No.	Special data	Denomination	Qty.
1	0110 7713	DIN471-8x0.8	Circlip	2
2	1202 9830		Clamping lever	1
3	6.0215.01.0.0084	DIN125-A8.4	Washer	3
4	0113 6452	DIN980-VM8-8	Locking nut	2
5	6.0215.01.0.0064	DIN125-A6.4	Washer	1
6	6.0200.70.0.0625	DIN912-M6x25-10.9	Cheese head screw	1
7	6.0200.70.0.0825	DIN912-M8x25-10.9	Cheese head screw	1
8	1202 9831		Fitted bolt	2
9	1202 7533		Link	1
10	1202 7535		Ball joint	2
11	0111 2823	DIN934-M8-8	Hexagon nut	2
12	1202 7538		Cap nut	1
13	1202 7539		Compression spring	1
14	1202 7536		Piston rod	1
15	1202 7537		Spring sleeve	1
16	1202 9824		Piston rod	1
17	6.0216.01.0.0060	DIN127-B6	Spring lock washer	1
18	6.0200.05.0.0625	DIN933-M6x25-8.8	Hexagon bolt	1
19	1202 9826		Clamping lever	1
20	0115 1118	DIN319-E32	Ball hand	1

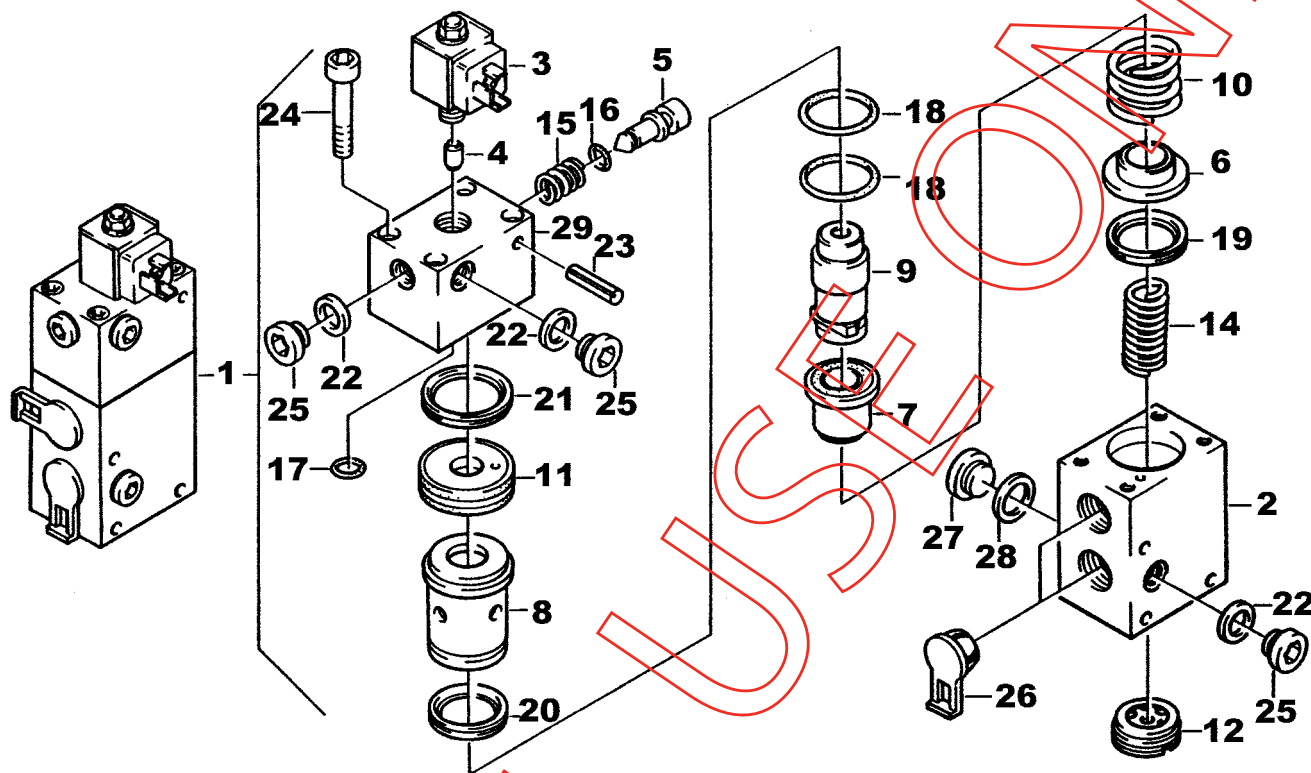


S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 0858		Start air pipe	1
2	0111 2811	DIN934-M6-8	Hexagon nut	6
3	6.0216.03.1.0060	DIN137-B6	Spring lock washer	6
4	1202 9894		Clamp	3
5	1203 0879		Rubber strip	4
6	1203 0877		Plate	1
7	0110 2664	DIN931-M6x45-8.8	Hexagon bolt	2
8	1203 0860		Start air pipe	1
9	1203 0863		Start air pipe	1
10	1203 0866		Start air pipe	1
11	1203 0878		Plate	1
12	1203 0868		Start air pipe	1
13	1203 0871		Start air pipe	1
14	1203 0873		Start air pipe	1
15	1203 0875		Clamp	1
16	0112 7031	DIN933-M6x30-8.8	Hexagon bolt	4
17	1203 0852		Cover	1
18	1202 4234		Start housing	1
19	1201 9400		Sealing ring	1
20	1201 9388		Plate	1
21	0115 1121	DIN3760-A22x32x7	Shaft seal	1
22	1201 9386		Lubricator	1

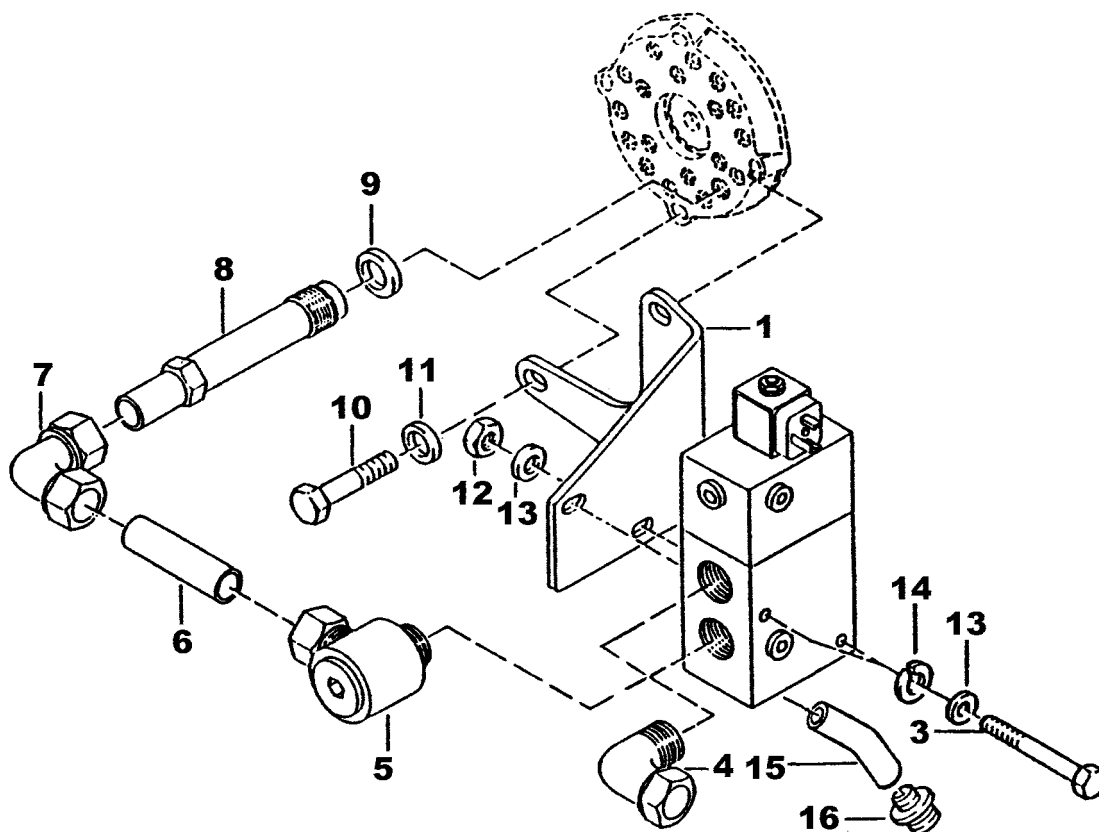
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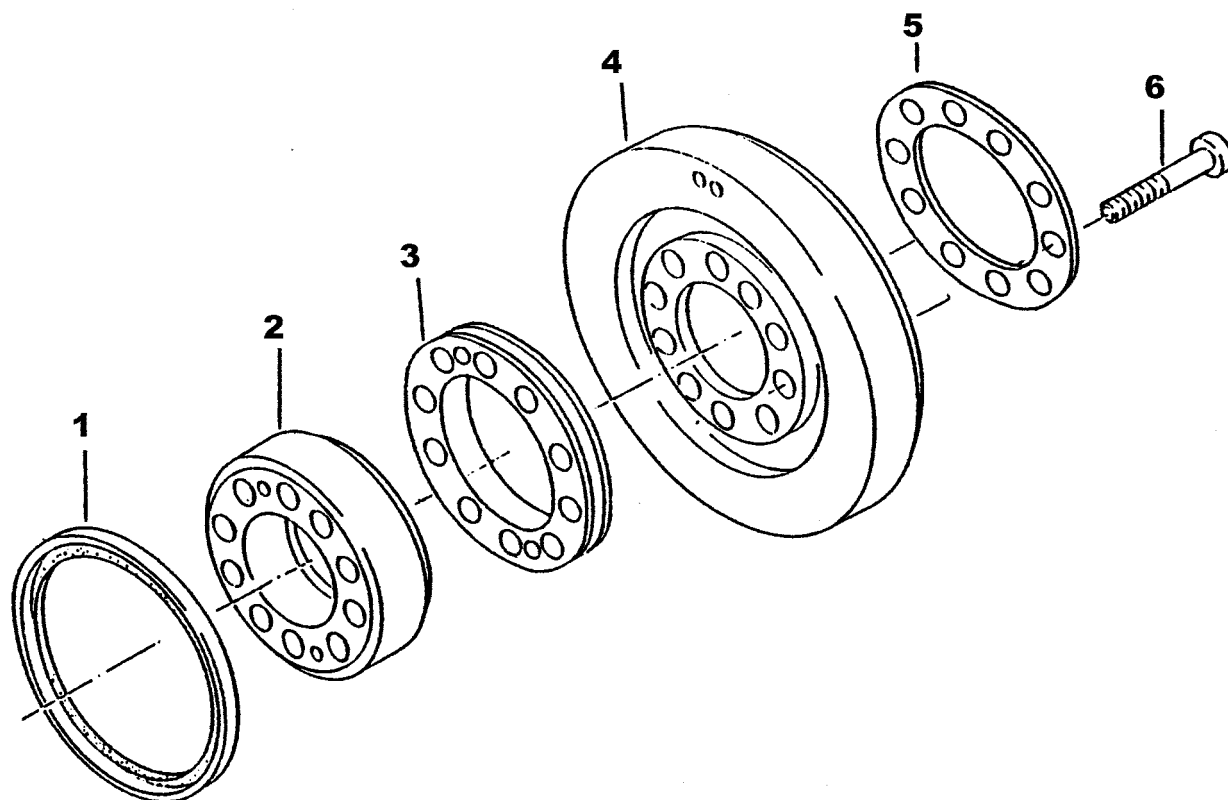


S/N	Drawing No.	Special data	Denomination	Qty.
1	1207 2648	K22DJH-L15-00	Solenoid valve	1
2	1207 2662		Housing base	1
3	1203 7601		Solenoid valve	1
4	1203 7605		Valve seat	1
5	1204 9360		Pin	1
6	1207 2653		Guide bush	1
7	1207 2654		Valve plate	1
8	1207 2655		Valve seat	1
9	1207 2657		Valve tappet	1
10	1202 8369		Compression spring	1
11	1207 2658		Piston	1
12	1207 2661		Silencer	1
14	1207 2651		Compression spring	1
15	1204 9362		Compression spring	1
16	1204 9363		O-ring	1
17	1207 2652		O-ring	1
18	1207 2650		O-ring	2
19	0117 6603	N891-22.1	Sealing ring	1
20	0117 6604	N891-25.1	Sealing ring	1
21	0117 6601	N890-40.1	Sealing ring	1
22	0115 1319	DIN7603-A10×15-Cu	Sealing ring	3
23	0115 1026	DIR1473-2×20ST	Notched pin	2

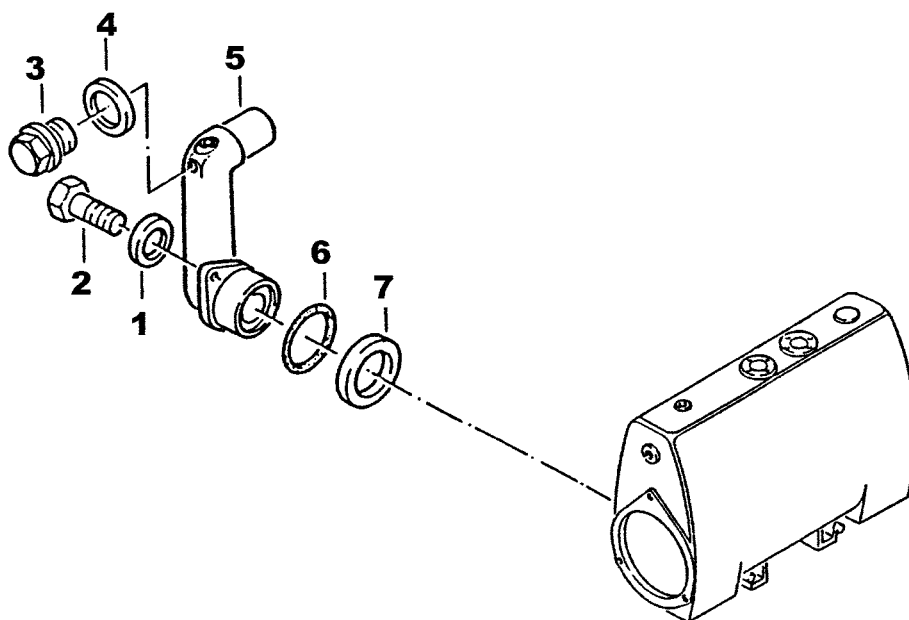


S/N	Drawing No.	Special data	Denomination	Qty.
1	4000 0318		Retainer	1
3	6.0200.01.0.0680	DIN931-M6×60-8.8	Hexagon bolt	2
4	0112 2746	DIN2353-FL18	Angle union	1
5	1207 2666		Swivel pipe union	1
6	1206 7295		Pipe	1
7	0111 6188	DIN2353-KL18	Angle union	1
8	1203 0846		Connector	1
9	6.0492.01.0.1420	DIN7603-A14×20-Cu	Sealing ring	1
10	6.0200.01.0.1045	DIN933-M10×45-8.8	Hexagon bolt	2
11	6.0216.01.0.0100	DIN127-B10	Spring lock washer	2
12	6.0210.05.4.0060	DIN934-M6-8	Hexagon nut	2
13	6.0215.01.0.0064	DIN125-A6.4	Washer	4
14	6.0216.01.0.0060	DIN127-B6	Spring lock washer	2
15	4000 0316		Pipe	1
16	4000 0313		Angle union	1

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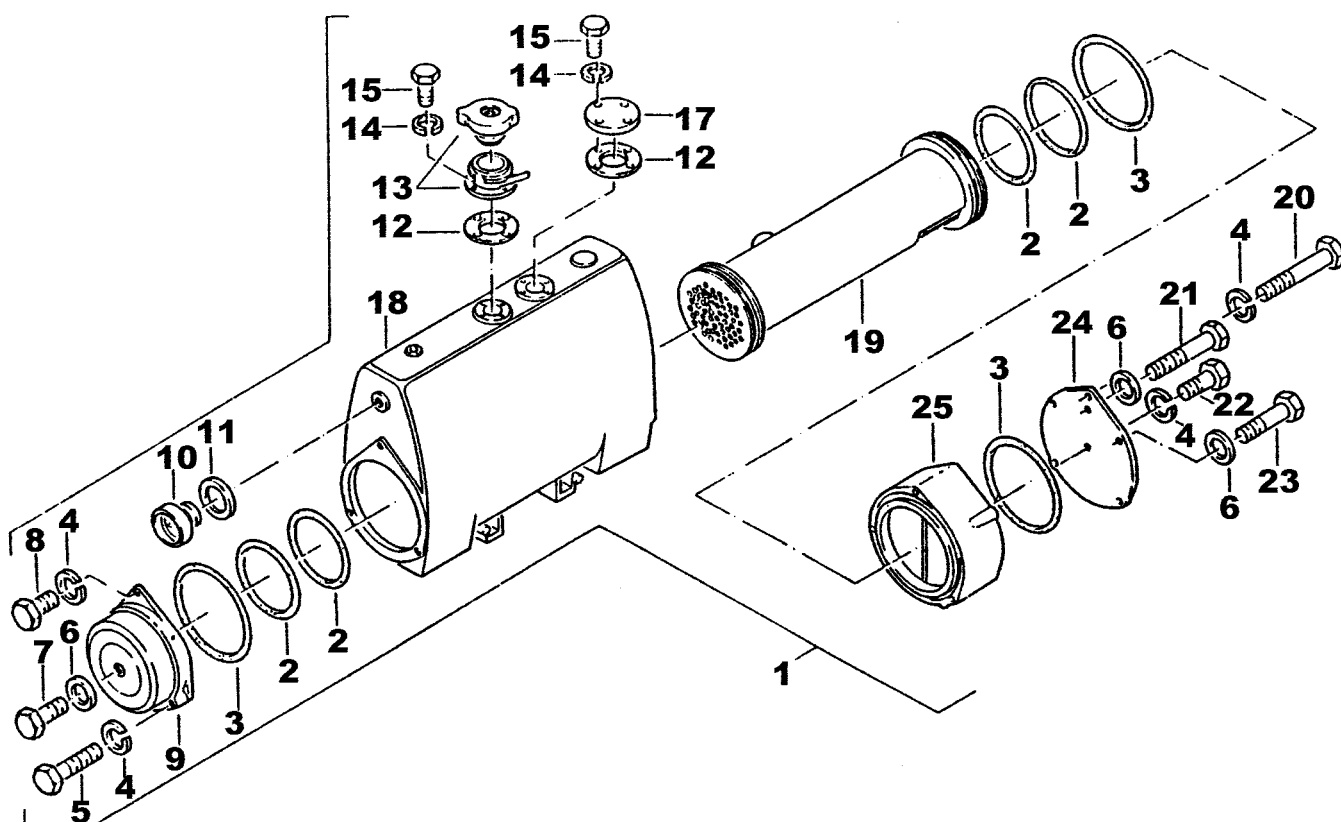


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Heat exchanger

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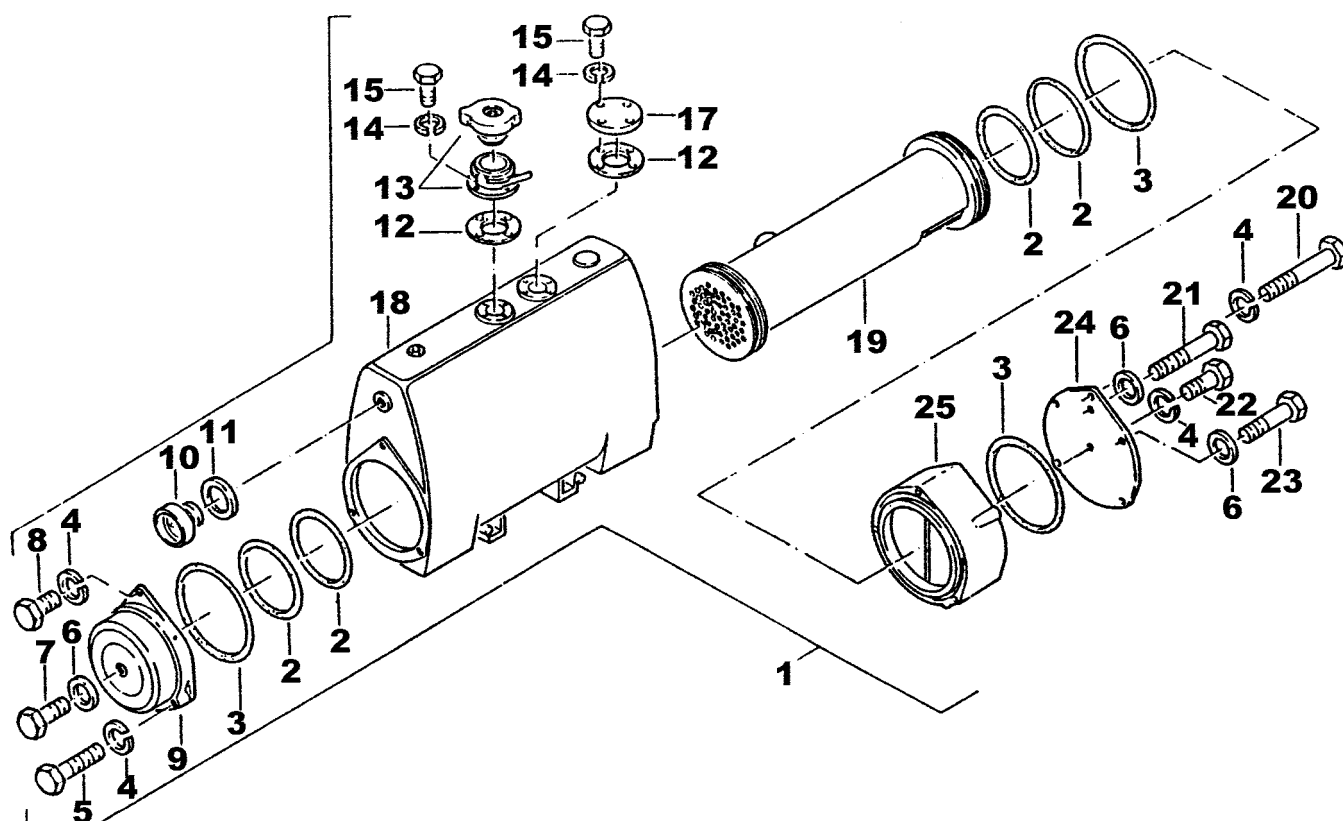


S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 0530		Heat exchanger	1
2	0115 3952	H2927-170x3.5	O-ring	4
3	0117 6802	H2927-190x3	O-ring	3
4	0110 2832	DIN128-A8	Spring lock washer	9
5	0113 7744	DIN933-M8x40-8.8	Hexagon bolt	2
6	0115 1323	DIN7603-A8x13-Cu	Sealing ring	3
7	0115 1570		Hexagon bolt	1
8	6.0200.05.0.0825	DIN933-M8x25	Hexagon bolt	1
9	1202 8038		Headpiece	1
10	1201 8986		Indicator	1
11	1201 9029		Gasket	1
12	1203 0539		Gasket	2
13	6.0555.92.1.1301		Special bayonal catch	1
14	0110 7187	DIN127-A5	Spring lock washer	8
15	6.0200.05.0.0510	DIN933-M5x10-8.8	Hexagon bolt	8
17	1203 0538		Cover	1
18	1213 5657		Housing/cade	1
19	1203 0532		Heat of tubes	1
20	0115 1536	DIN931-M8x110-8.8	Hexagon bolt	3
21	0115 1543		Hexagon bolt	1
22	6.0200.05.0.0816	DIN933-M8x16-8.8	Hexagon bolt	3
23	0115 1542		Hexagon bolt	1
24	1202 8042		Cover	1
25	1202 8036		Headpiece	1

Heat exchanger(inner river)

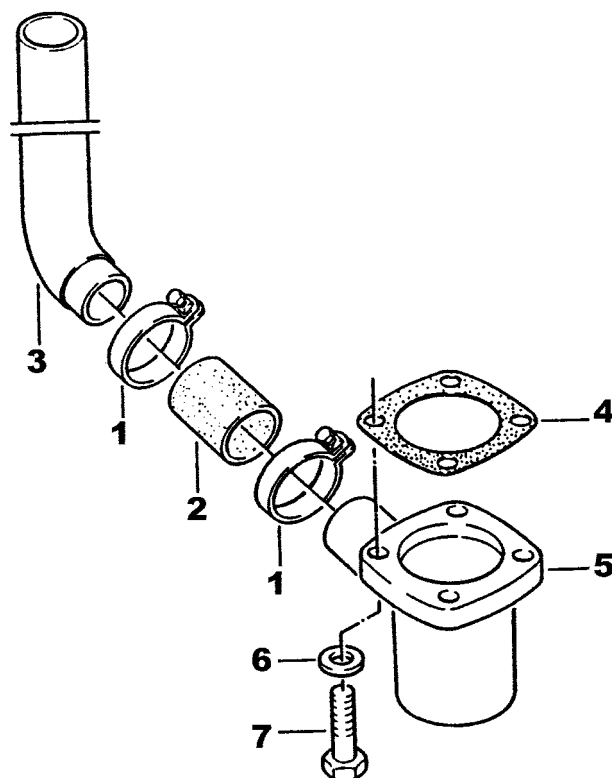
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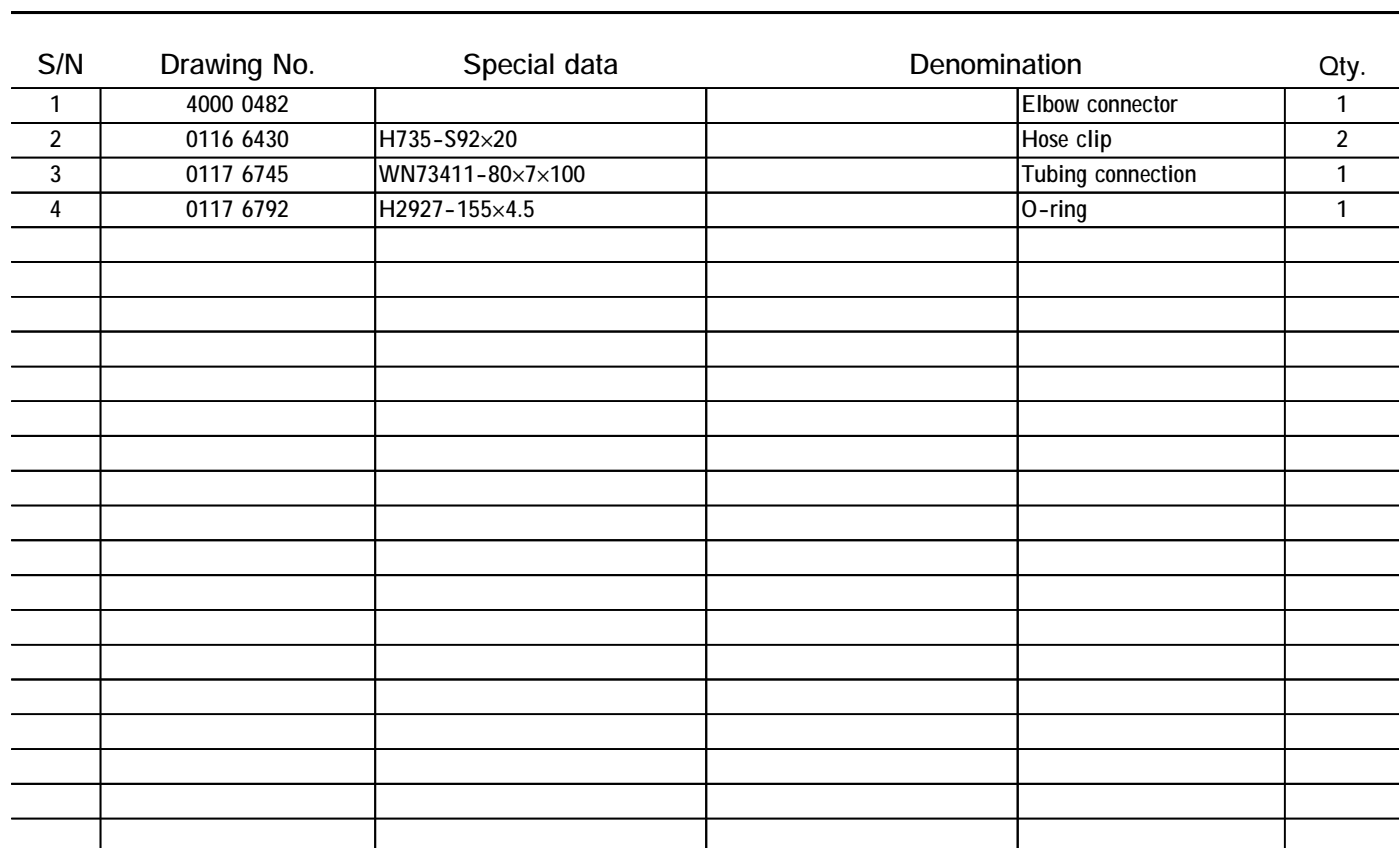
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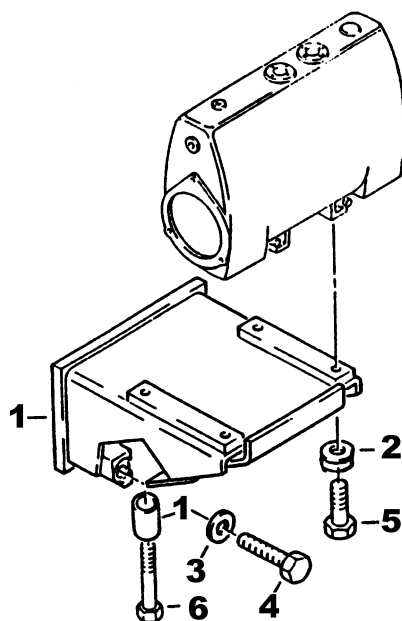


S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 0530		Heat exchanger	1
2	0115 3952	H2927-170×3.5	O-ring	4
3	0117 6802	H2927-190×3	O-ring	3
4	0110 2832	DIN128-A8	Spring lock washer	9
5	0113 7744	DIN933-M8×40-8.8	Hexagon bolt	2
6	0115 1323	DIN7603-A8×13-Cu	Sealing ring	3
7	0115 1570		Hexagon bolt	1
8	6.0200.05.0.0825	DIN933-M8×25	Hexagon bolt	1
9	4202 8038		Headpiece	1
10	1201 8986		Indicator	1
11	1201 9029		Gasket	1
12	1203 0539		Gasket	2
13	6.0555.92.1.1301		Special bayonal catch	1
14	0110 7187	DIN127-A5	Spring lock washer	8
15	6.0200.05.0.0510	DIN933-M5×10-8.8	Hexagon bolt	8
17	1203 0538		Cover	1
18	1213 5657		Housing/cade	1
19	1203 0532		Heat of tubes	1
20	0115 1536	DIN931-M8×110-8.8	Hexagon bolt	3
21	0115 1543		Hexagon bolt	1
22	6.0200.05.0.0816	DIN933-M8×16-8.8	Hexagon bolt	3
23	0115 1542		Hexagon bolt	1
24	4202 8042		Cover	1
25	4202 8036		Headpiece	1

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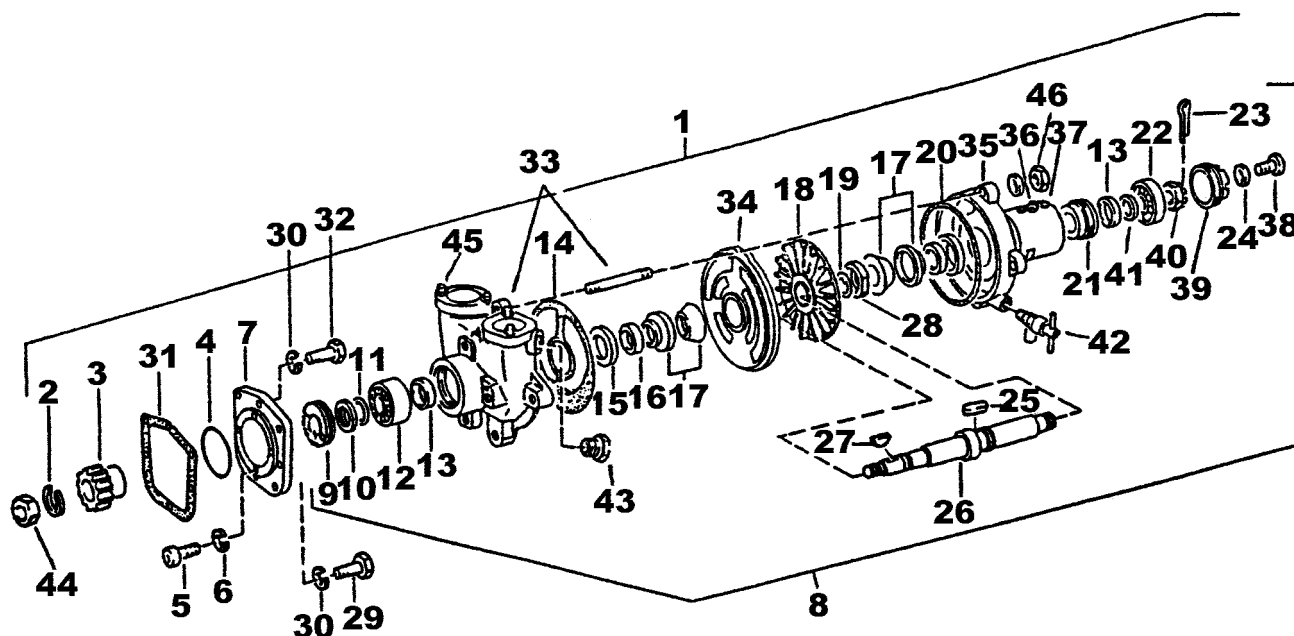


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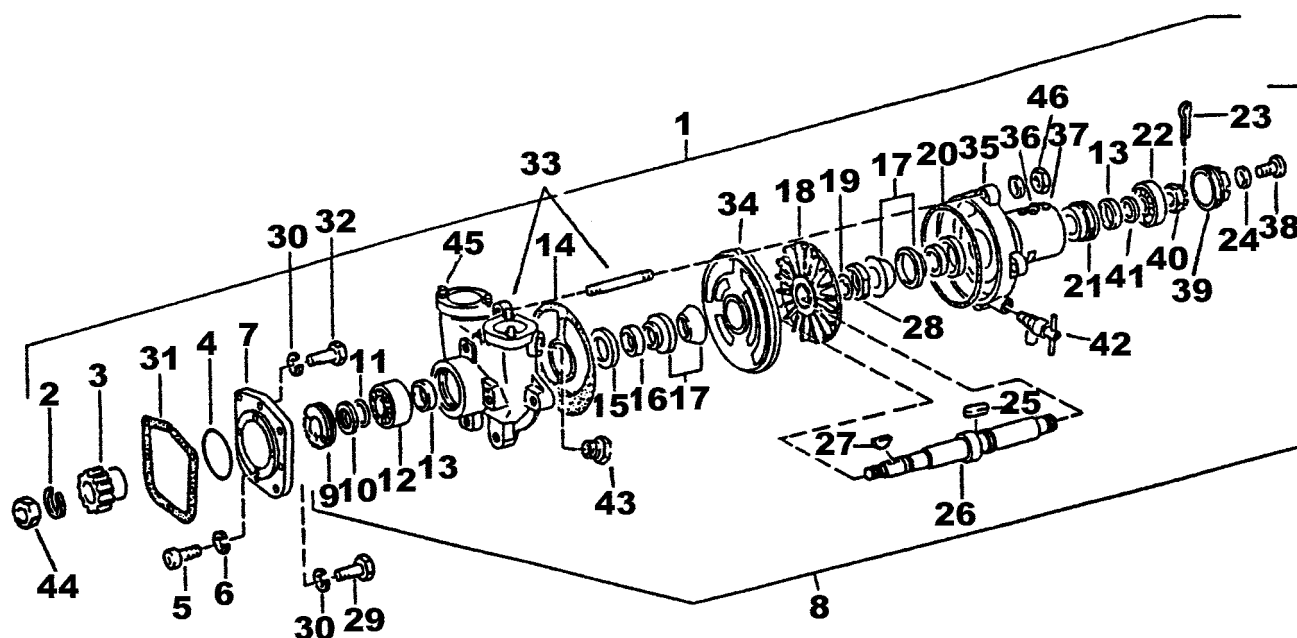
Sea water pump

37 508 1213

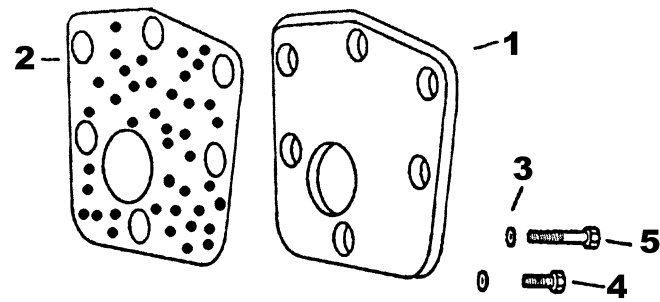
Page 1 of 2



S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 0519		Centrifugal pump	1
2	0110 7560	DIN433-19	Gasket	1
3	1213 5125		Drive gear	1
4	1203 0525		O-ring	1
5	0111 0665	DIN912-M10×35-10.9	Cheese head screw	4
6	4000 1336		Sealing ring	4
7	1203 0526		Centering cover	1
8	1203 0521		Raw water pump	1
9	1202 8429		Bearing cover	1
10	1202 8433	Φ25×37×7	Shaft seal	1
11	0111 9830	DIN7993-A25	Snap seal	1
12	0111 7154	42605GB283-87	Par. roll. bearing	1
13	0115 1122	DIN3760-A28×40×7	Shaft seal	2
14	1202 7402		Gasket	1
15	1202 8432		Cup seal	2
16	0400 9574	3017×45×8	Stop ring	2
17	1202 7382	28×47×22	Floating seal	2
18	0400 9565		Impeller	1
19	1202 8430		Locking plate	1
20	1202 7401		Gasket	1
21	1203 0523		Adjusting ring	1
22	0110 9121	305GB276-89	Ball bearing	1
23	0110 6472	DIN94-5×45	Split pin	1



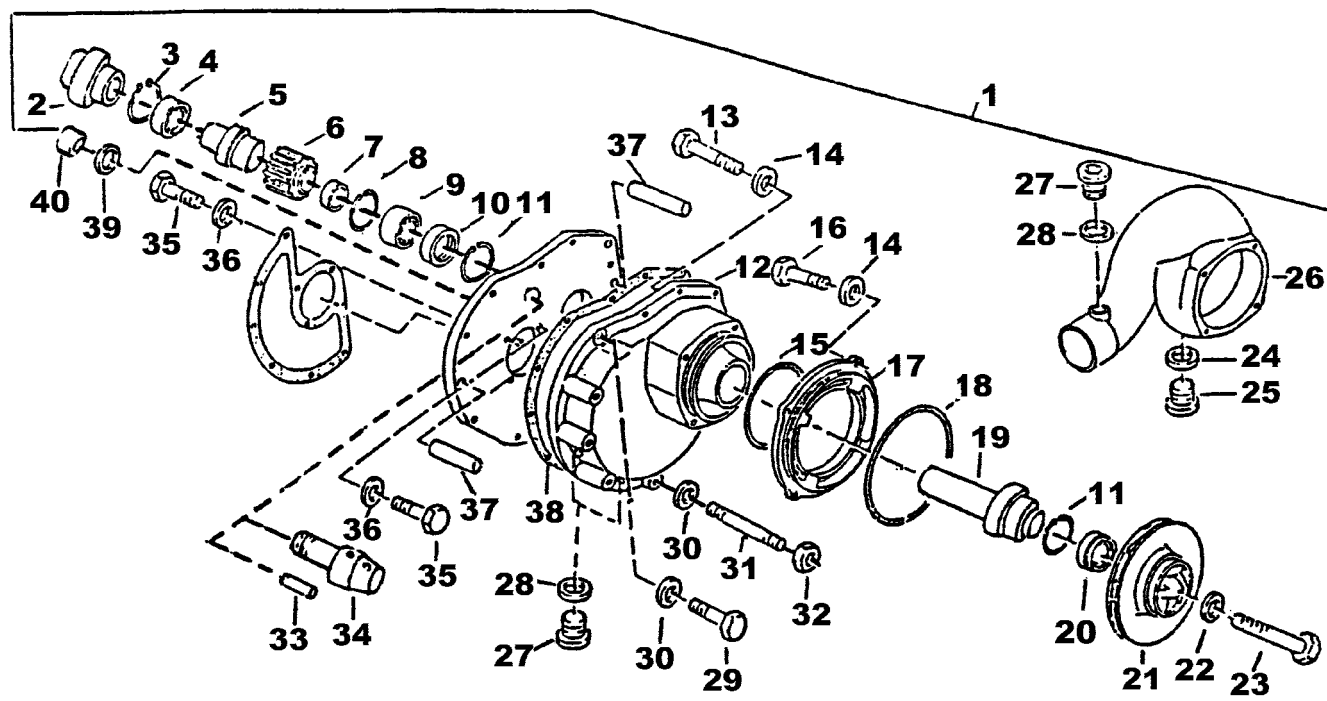
S/N	Drawing No.	Special data	Denomination	Qty.
24	0115 1324	DIN7603-C10×15	Sealing ring	1
25	0400 9580	DIN6885-A8×7×12	Key	1
26	1202 7397		Driver shaft	1
28	1202 8428		Clamping nut	1
29	6.0200.05.0.0825	DIN933-M8×25-8.8	Hexagon bolt	2
30	0110 2832	DIN128-A8	Spring lock washer	6
31	1203 0071		Gasket	1
32	6.0200.05.0.0835	DIN933-M8×35-8.8	Hexagon bolt	4
33	4000 0077		Left pump body	1
34	4000 0082		Bore plate	1
35	4000 0083		Right pump body	1
36	4000 0828	45°M10×1 GB1153	Oil cup	2
37	4000 0084	DIN914-M6×8	Hexagon bolt	3
38	4000 0086	DIN84-M10×12	Hexagon bolt	1
39	4000 0087		Bearing cover	1
40	4000 0088		Hexagon castle nut	1
41	4000 0089		Gasket	1
42	1M21.6ZT		Screw plug	2
43	4000 1529		Screw plug	2
44	0113 7109	DIN934-M18×1.5	Hexagon nut	1
45	6.0210.05.4.0100	DIN934-M10-10-A	Hexagon nut	4
46	4000 0091	DIN985-M12-8	Hexagon nut	4
47	6.0492.01.0.1418	DIN7603-A14×18-Cu	Sealing ring	2

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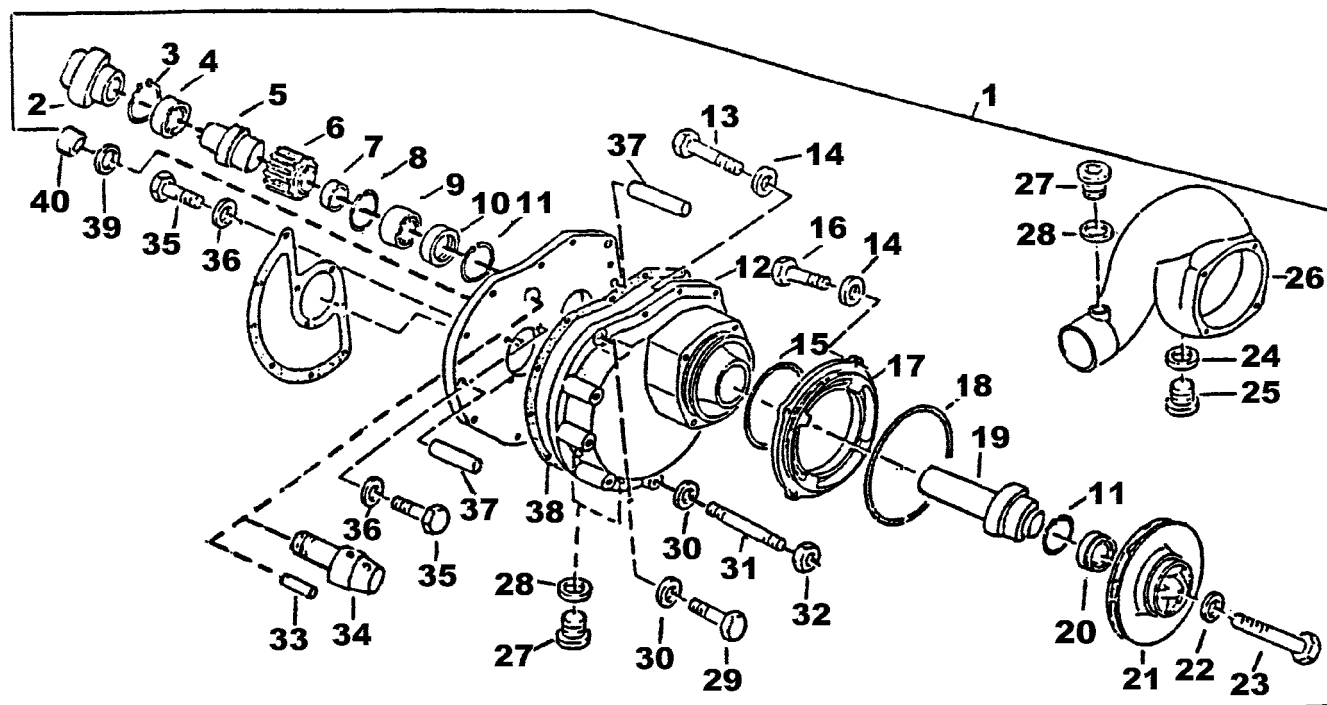
Centifugal water pump

37 508 2242A

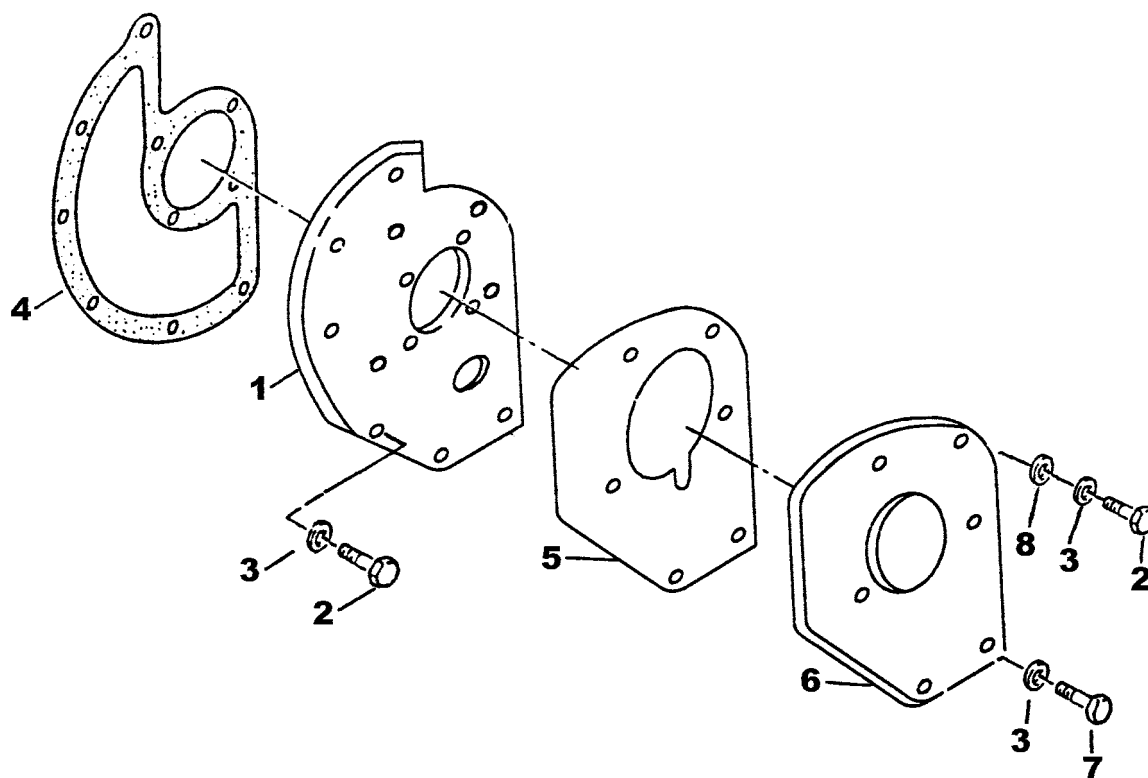
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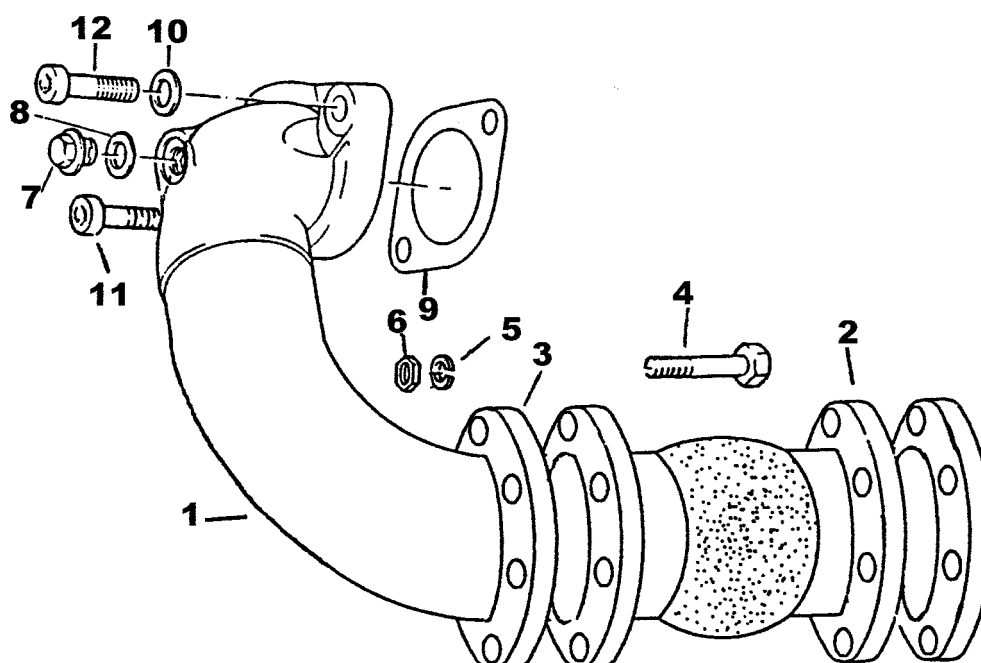


S/N	Drawing No.	Special data	Denomination	Qty.
1	1213 7399		Centrifugal pump	1
2	1213 7410		Bearing bush	1
3	0110 7730	DIN471-20×1.2	Locking ring	1
4	0117 9892	NUP204ETN GB/T283-94	Roller bearing	1
5	1213 7409		Short shaft	1
6	1213 7411		Drive gear	1
7	1213 7413		Distance ring	1
8	6.0305.02.0.0062	DIN472-62×2	Circlip	1
9	0114 3573	QJ305 GB/T294-94	Ball bearing	1
10	0115 1127		Shaft seal	1
11	6.0305.02.0.0052	DIN472-52×2	Circlip	2
12	1230 3900		Housing	1
13	0113 7744	DIN933-M8×40-8.8	Hexagon bolt	4
14	6.0492.01.0.0814	DIN7603-A8×14-Cu	Washer	8
15	0117 6792	H2927-115×4.5	O-ring	1
16	6.0200.05.0.0820	DIN933-M8×20-8.8	Hexagon bolt	4
17	1203 0039		Intermediate ring	1
18	1202 7568		O-ring	1
19	1230 9091		Long shaft	1
20	1231 2071		Floating seal	1
21	1213 7402		Impeller	1
22	1213 7414		Washer	1

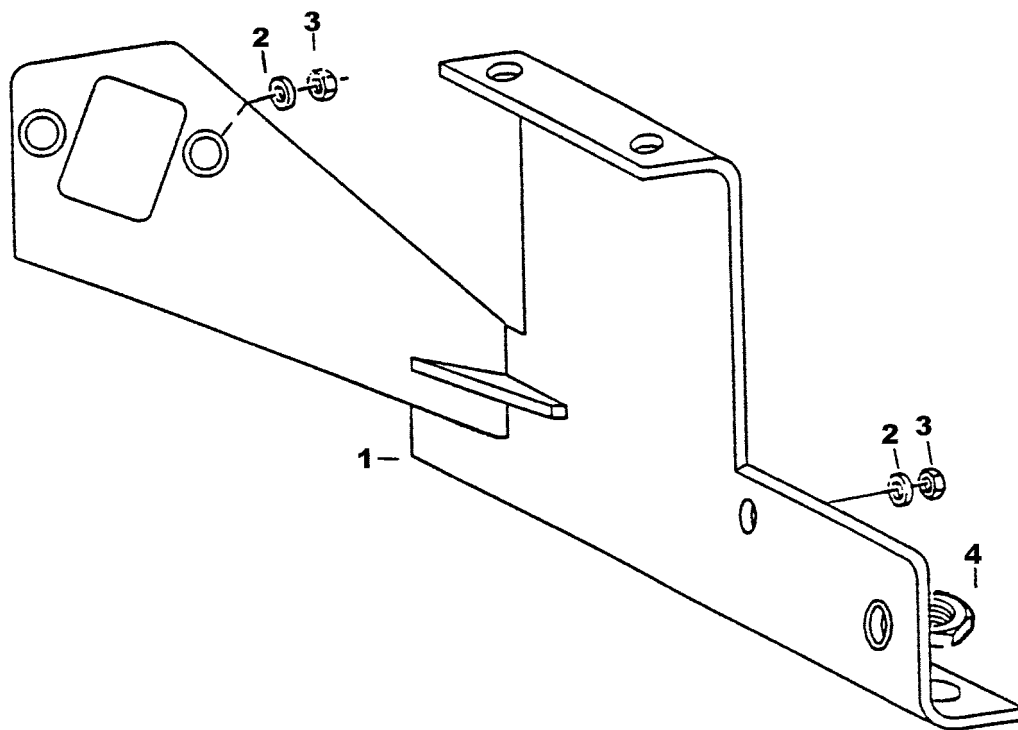


S/N	Drawing No.	Special data	Denomination	Qty.
23	6.0200.70.1.1213	DIN912-M12×130-10.9	Cheese head screw	1
24	6.0492.01.0.1420	DIN7603-14×20	Sealing ring	1
25	6.0206.11.4.1421	DIN908-M14×1.5-5.8	Screw plug	1
26	1213 6776		Volute housing	1
27	6.0206.11.4.1822	DIN908-M18×1.5-ST	Screw plug	3
28	6.0492.01.0.1822	DIN7603-A18×22-Cu	Sealing ring	3
29	6.0200.05.0.0835	DIN933-M8×35-8.8	Hexagon bolt	2
30	6.0215.01.0.0084	DIN125-8.4	Washer	8
31	0111 3422	DIN939-M8×35-8.8	Stud	4
32	0111 2823	DIN934-M8-8	Hexagon nut	4
33	0115 1027	DIN1474-5×12	Dowel pin	1
34	1213 7426		Nozzle	1
35	6.0200.05.0.0825	DIN933-M8×25-8.8	Hexagon bolt	2
36	6.0215.01.0.0084	DIN125-8.4	Washer	2
37	0111 5465	DIN1481-8×20	Bowel pin	2
38	1203 0047		Gasket	1
39	0115 1319	DIN7603-A10×15	Sealing ring	1
40	1213 7456		Screw connection	1

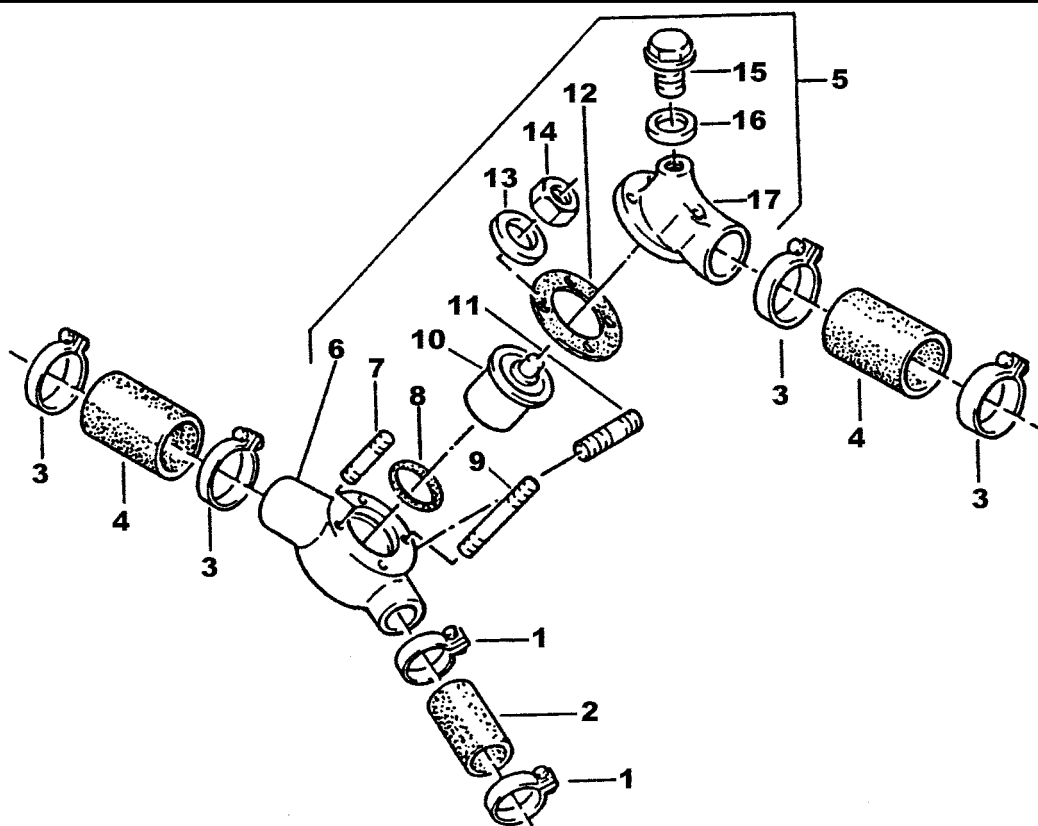
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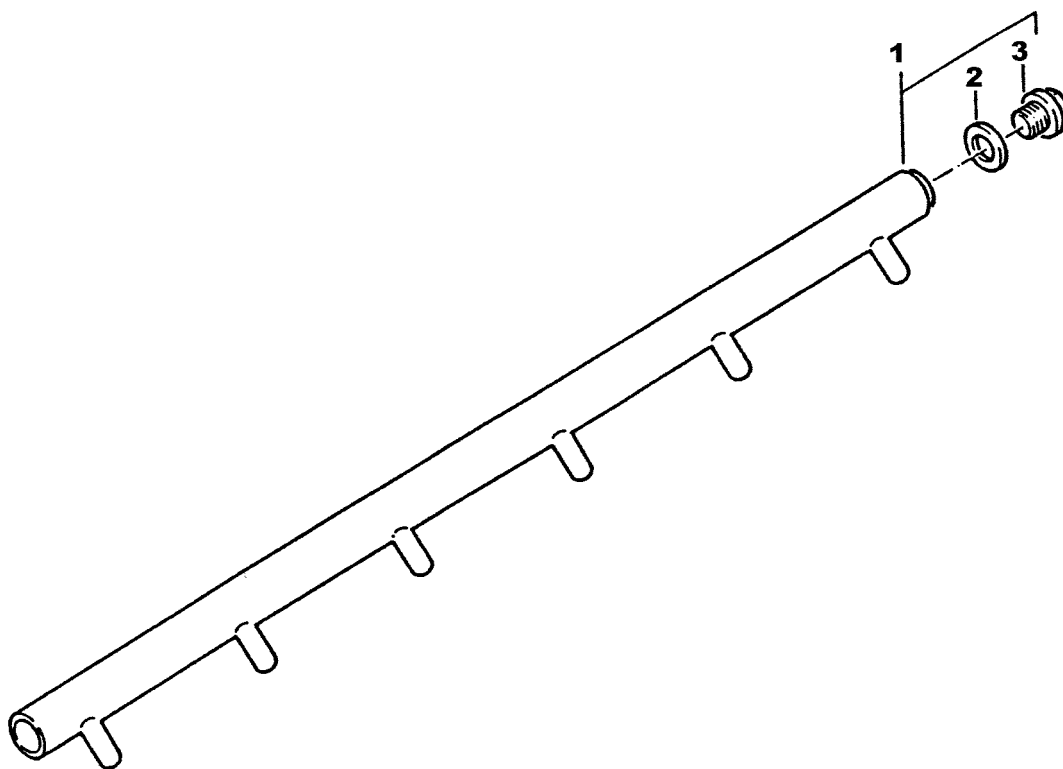


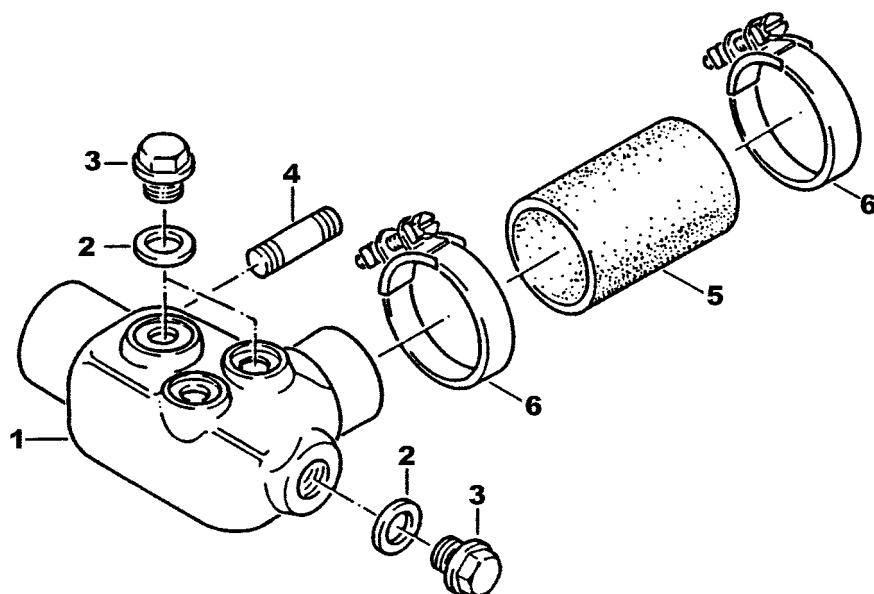
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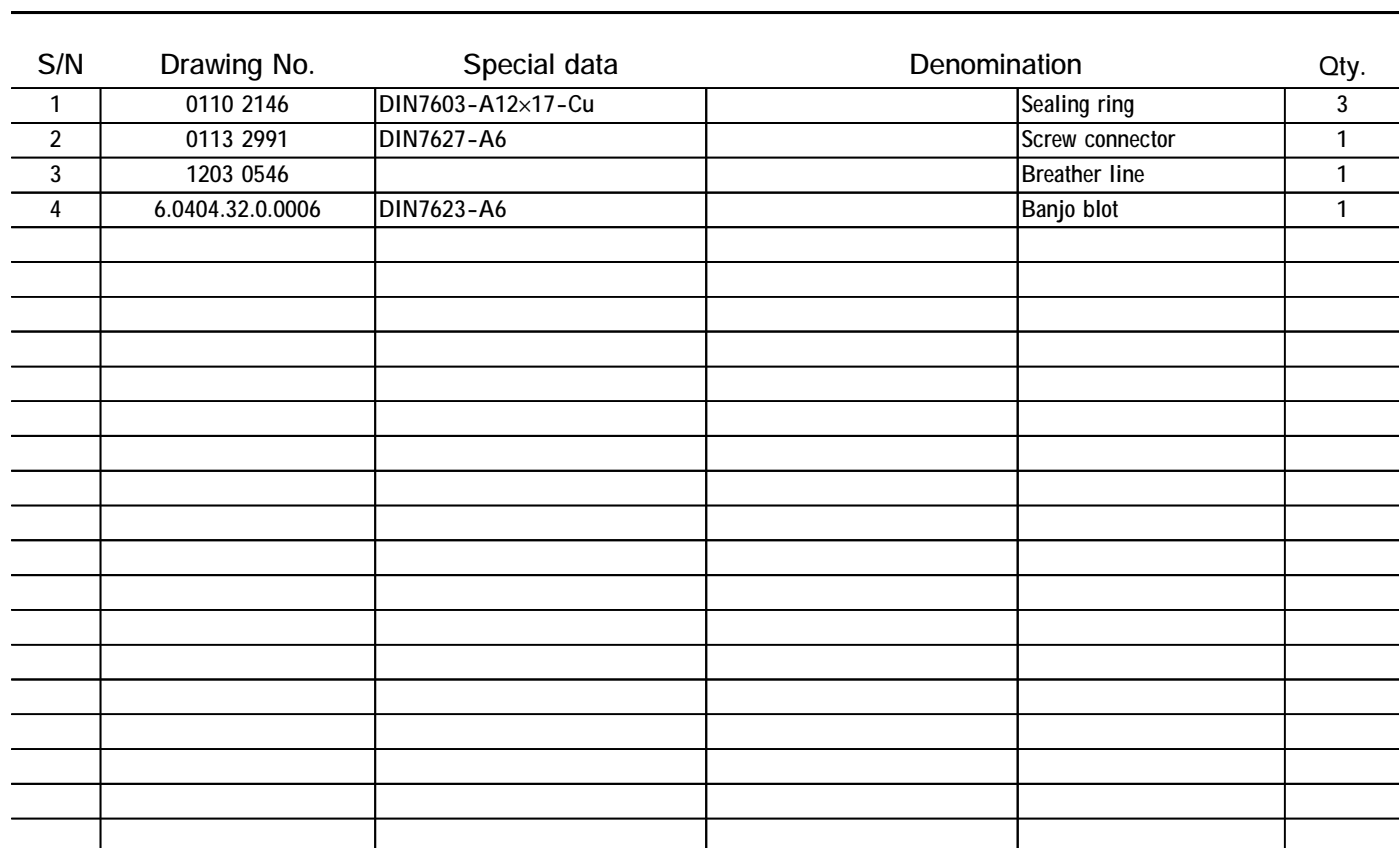


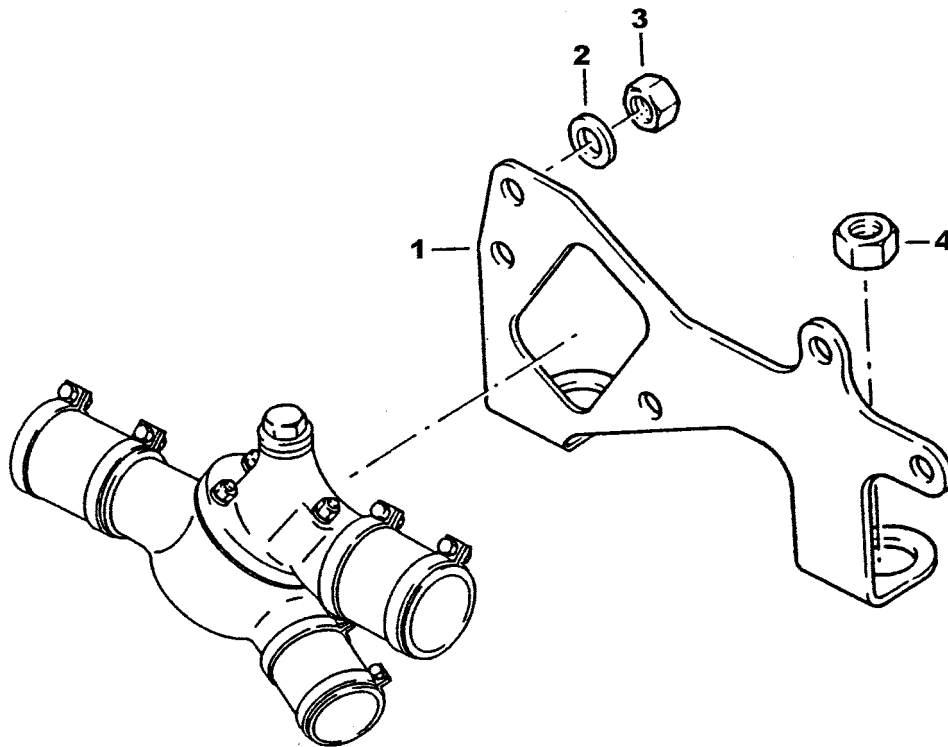
S/N	Drawing No.	Special data	Denomination	Qty.
1	0117 6835	WN8505-S61/20	Hose clip	2
2	0117 6739	WN73411-50x5.5x80	Tubing connection	1
3	0117 6836	WN8505-S70/20	Hose clip	4
4	0117 6742	WN73411-60x5.5x80	Tubing connection	2
5	1203 0084		Housing	1
6	1203 0086		Housing	1
7	6.0201.20.0.0825	DIN835-M8x25-8.8	Stud	2
8	1203 0090		Gasket	1
9	0115 1608	DIN939-M8x65-8.8	Stud	2
10	1306KC-010		Element	1
11	6.0201.10.0.0820	DIN939-M8x20-5.8	Stud	2
12	1203 0091		Gasket	1
13	6.0215.01.0.0084	DIN125-A8.4-ST	Washer	4
14	0111 2823	DIN934-M8-8	Hexagon nut	4
15	0111 0423	DIN908-M14x1.5	Screw plug	1
16	6.0492.01.0.1420	DIN7603-A14x20-Cu	Gasket	1
17	1203 0092		Elbow	1

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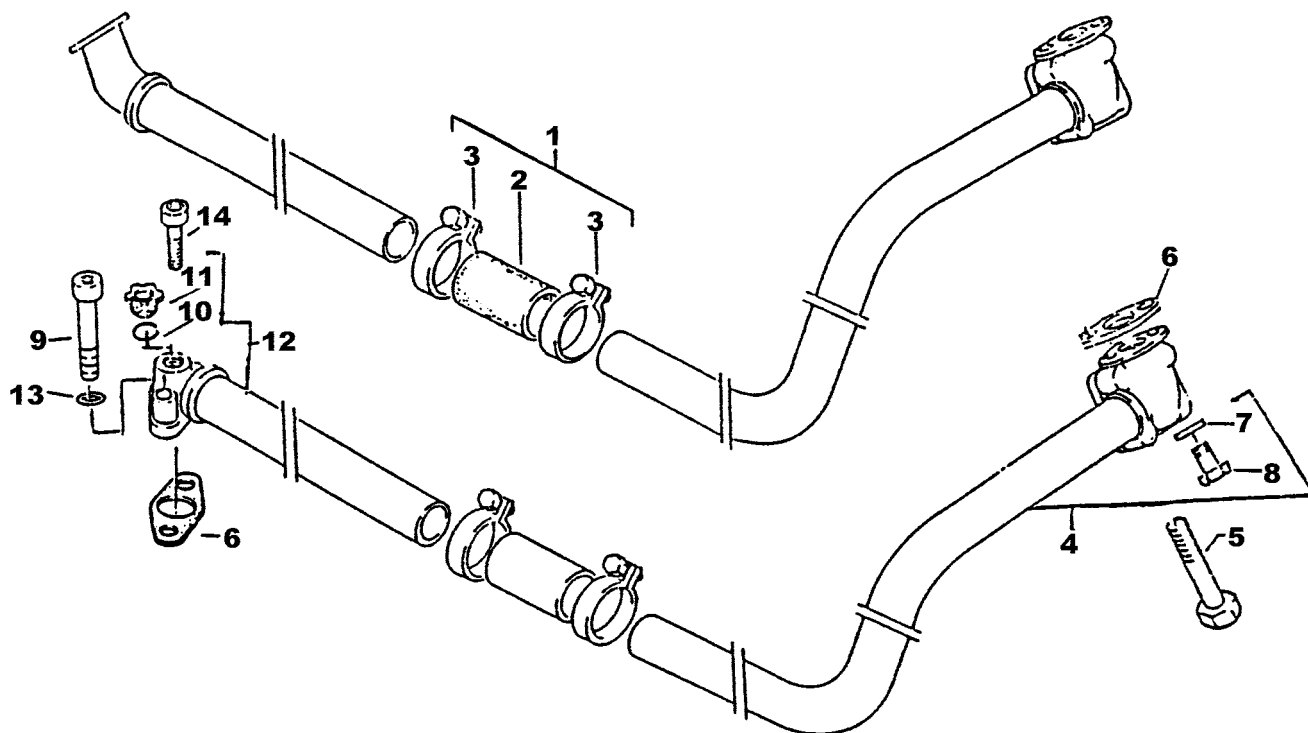


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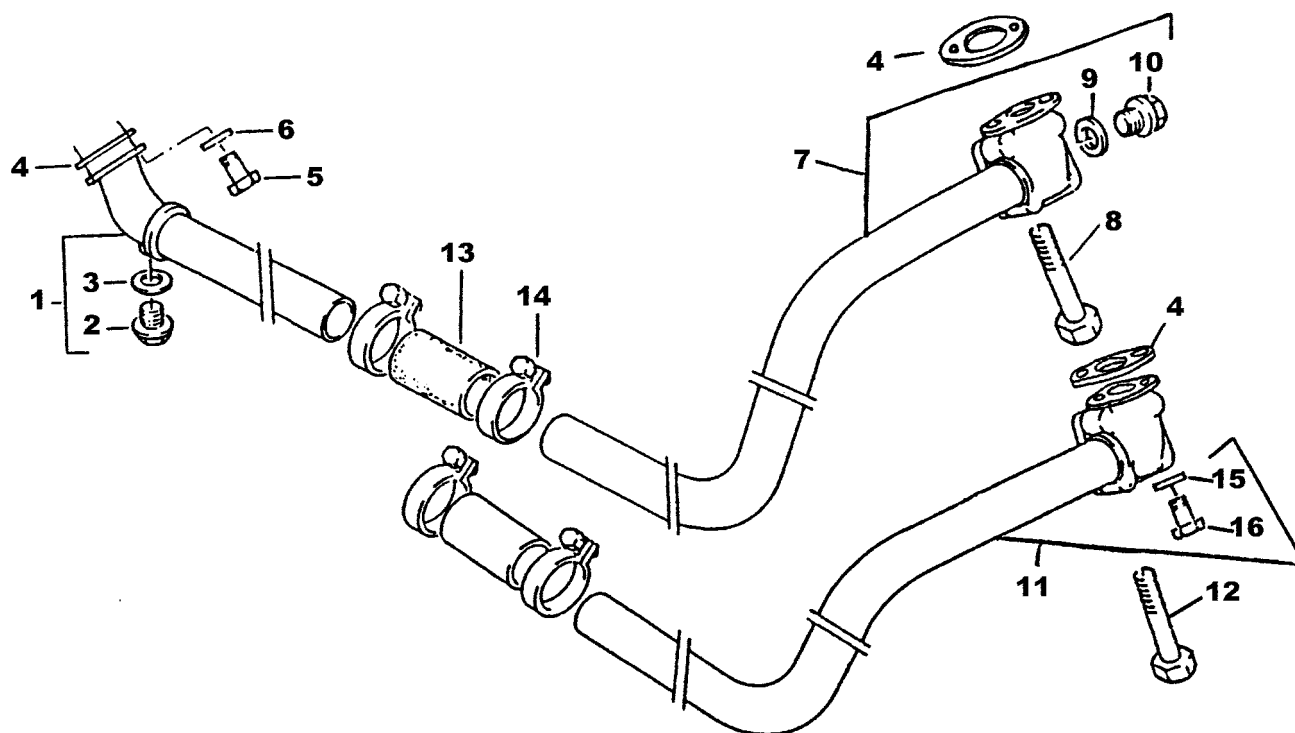


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S/N	Drawing No.	Special data	Denomination	Qty.
1	1202 7524		Hose sleeve	2
2	1202 7526		Tubing connection	2
3	0117 6834	WN8505-S60/25	Hose clip	4
4	1212 7529		Water pipe	1
5	6.0200.01.0.1080	DIN931-M10×80-8.8	Hexagon bolt	2
6	0115 1301	DIN71511-50×78×2	Gasket	2
7	6.0492.01.0.1418	DIN7603-A14×18	Sealing ring	1
8	0115 1449	DIN910-M14×1.5	Screw plug	1
9	0111 0695	DIN912-M10×70-10.9	Cheese head screw	1
10	6.0492.01.0.1622	DIN7603-A16×22-Cu	Sealing ring	1
11	0115 1451	DIN910-M16×1.5	Screw plug	1
12	1203 0565		Water pipe	1
13	0110 7550	DIN433-10.5	Washer	2
14	6.0200.70.0.1030	DIN912-M10×30-10.9	Cheese head screw	1



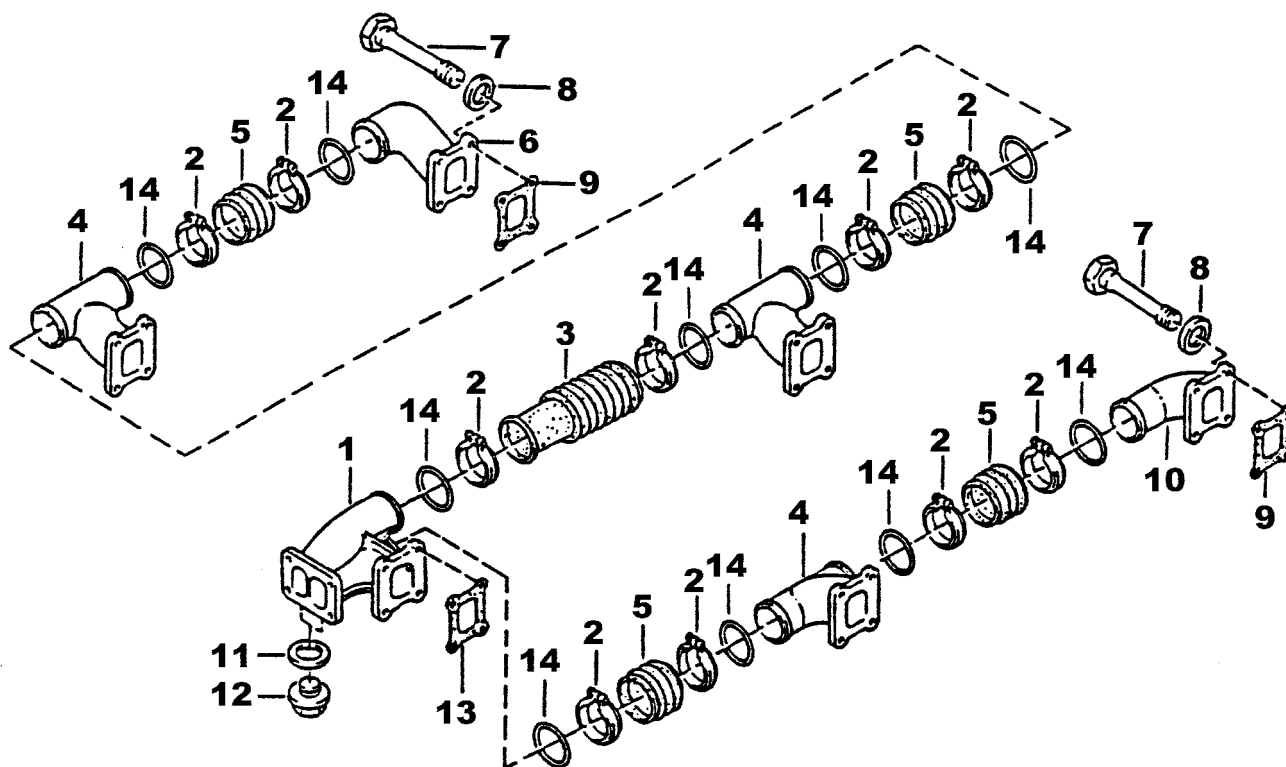
S/N	Drawing No.	Special data	Denomination	Qty.
1	4203 0582		Water pipe	1
2	6.0206.04.0.1615	DIN910-M16×1.5-5.8	Screw plug	1
3	6.0492.01.0.1622	DIN7603-A16×22-Cu	Sealing ring	1
4	0115 1301	DIN71511-50×78×2	Gasket	3
5	6.0200.05.0.1025	DIN933-M10×25-8.8	Hexagon bolt	2
6	6.0215.01.0..0105	DIN125-10.5	Washer	2
7	4212 7531		Water pipe	1
8	6.0200.05.0.1030	DIN933-M10×30-8.8	Hexagon bolt	2
9	6.0492.01.0.2631	DIN7603-A26×31-Cu	Sealing ring	1
10	0115 1337	DIN7604-A-M26×1.5-ST	Screw plug	1
11	4212 7529		Water pipe	1
12	6.0200.01.0.1080	DIN931-M10×80-8.8	Hexagon bolt	2
13	1202 7526		Tubing connection	2
14	0117 6834		Hose clip	4
15	6.0492.01.0.1418	A14×18 DIN7603-Cu	Sealing ring	1
16	6.0206.04.0.1415	DIN910-M14×1.5-5.8	Screw plug	1

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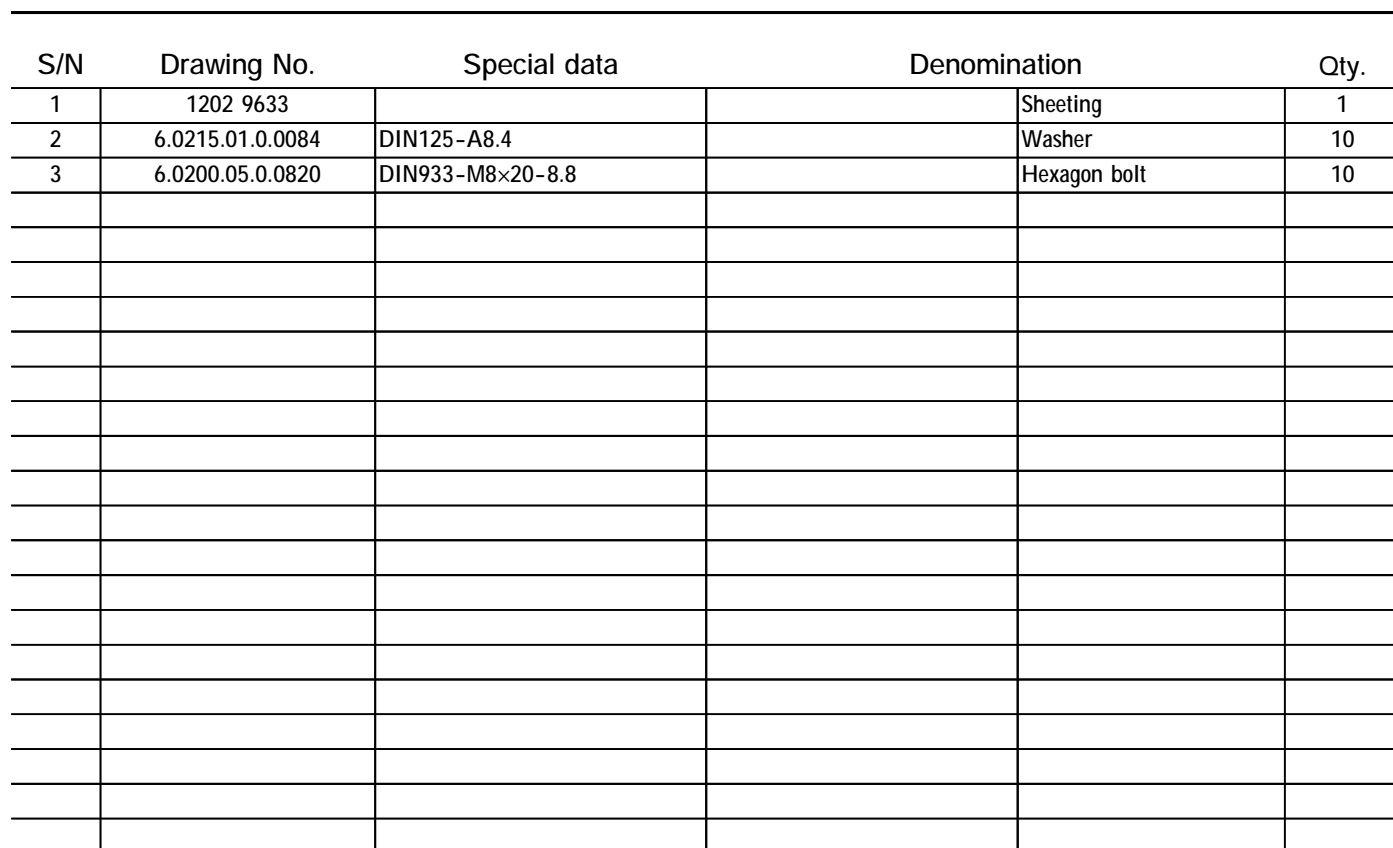
Exhaust lines

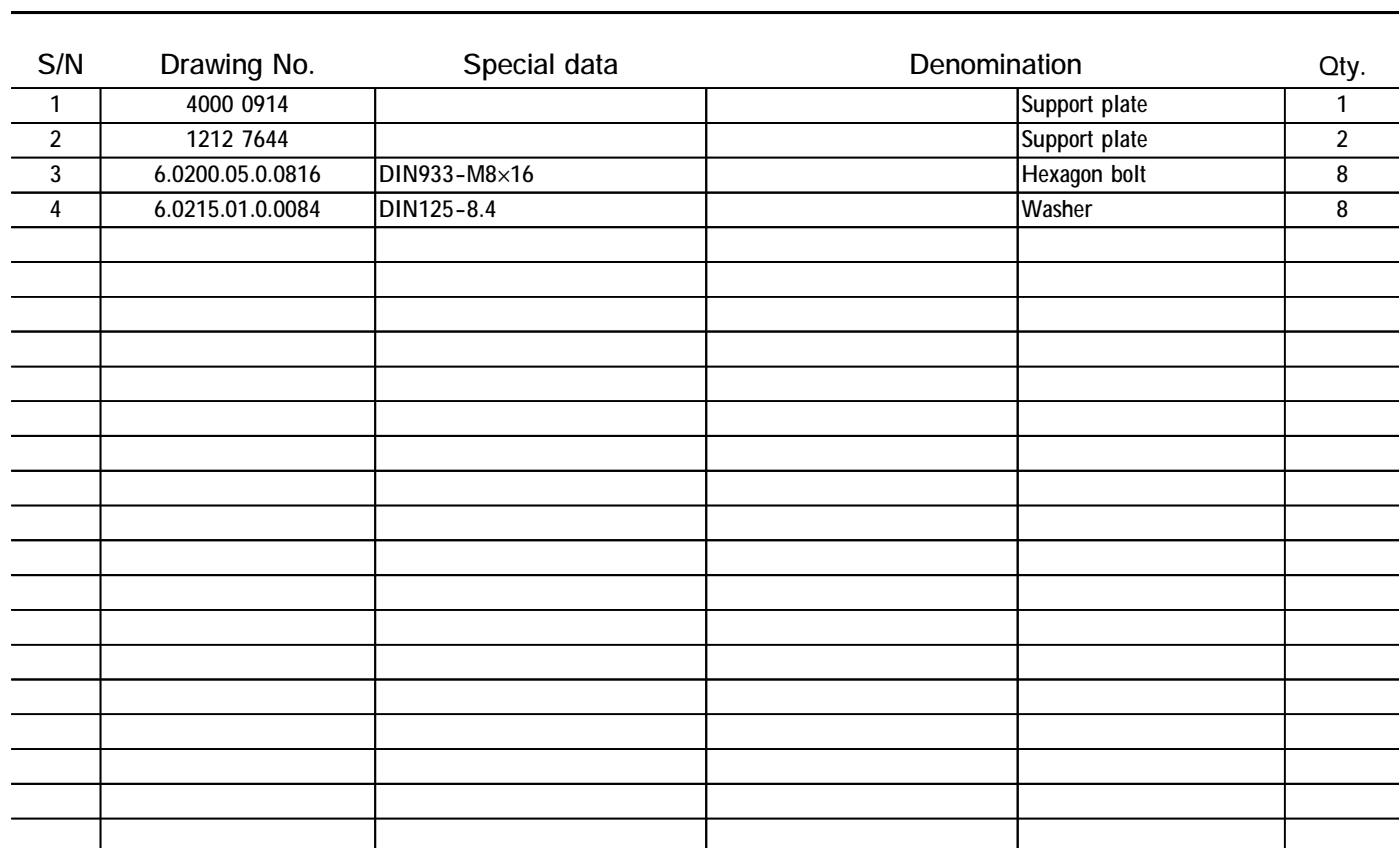
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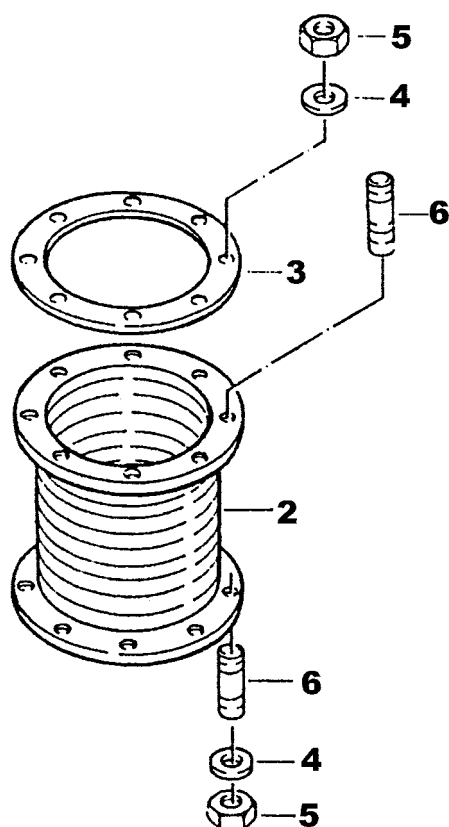
S/N	Drawing No.	Special data	Denomination	Qty.
1	1213 4988		Exhaust pipe	1
2	1213 4131		Clip	10
3	1202 9619		Expansion joint	1
4	1202 9623		Exhaust pipe	3
5	1202 9617		Expansion joint	4
6	1202 9625		Exhaust pipe	1
7	1203 0750	M10×48	Screw	24
8	1203 1223		Clamp	24
9	1202 9621		Gasket	5
10	1202 9627		Exhaust pipe	1
11	6.0492.01.0.1420	DIN7603-A14×20	Sealing ring	2
12	6.0206.04.2.0014	DIN910-G1/4A	Screw plug	2
13	1203 2263		Gasket	1
14	1213 5514		Gasket	10

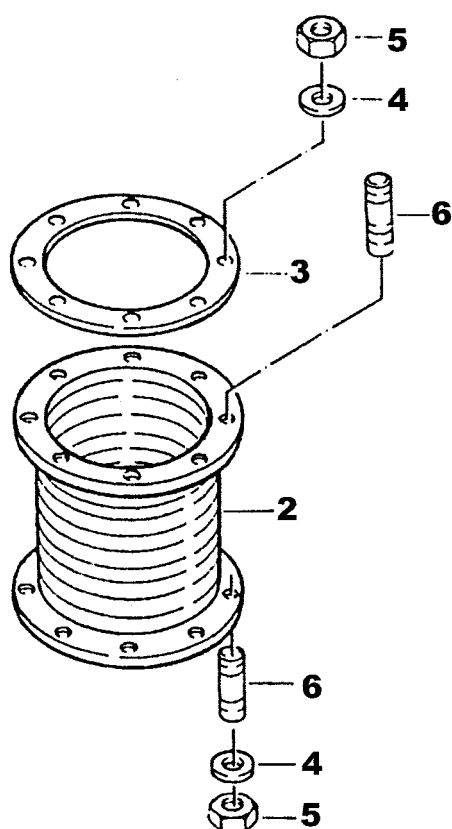




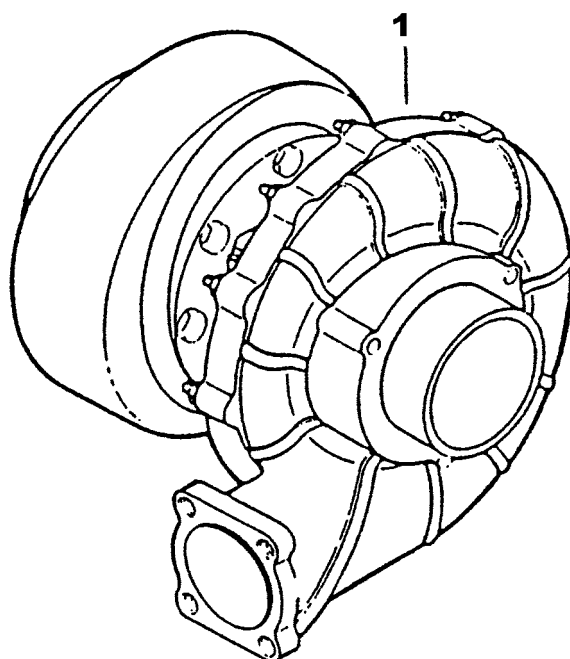
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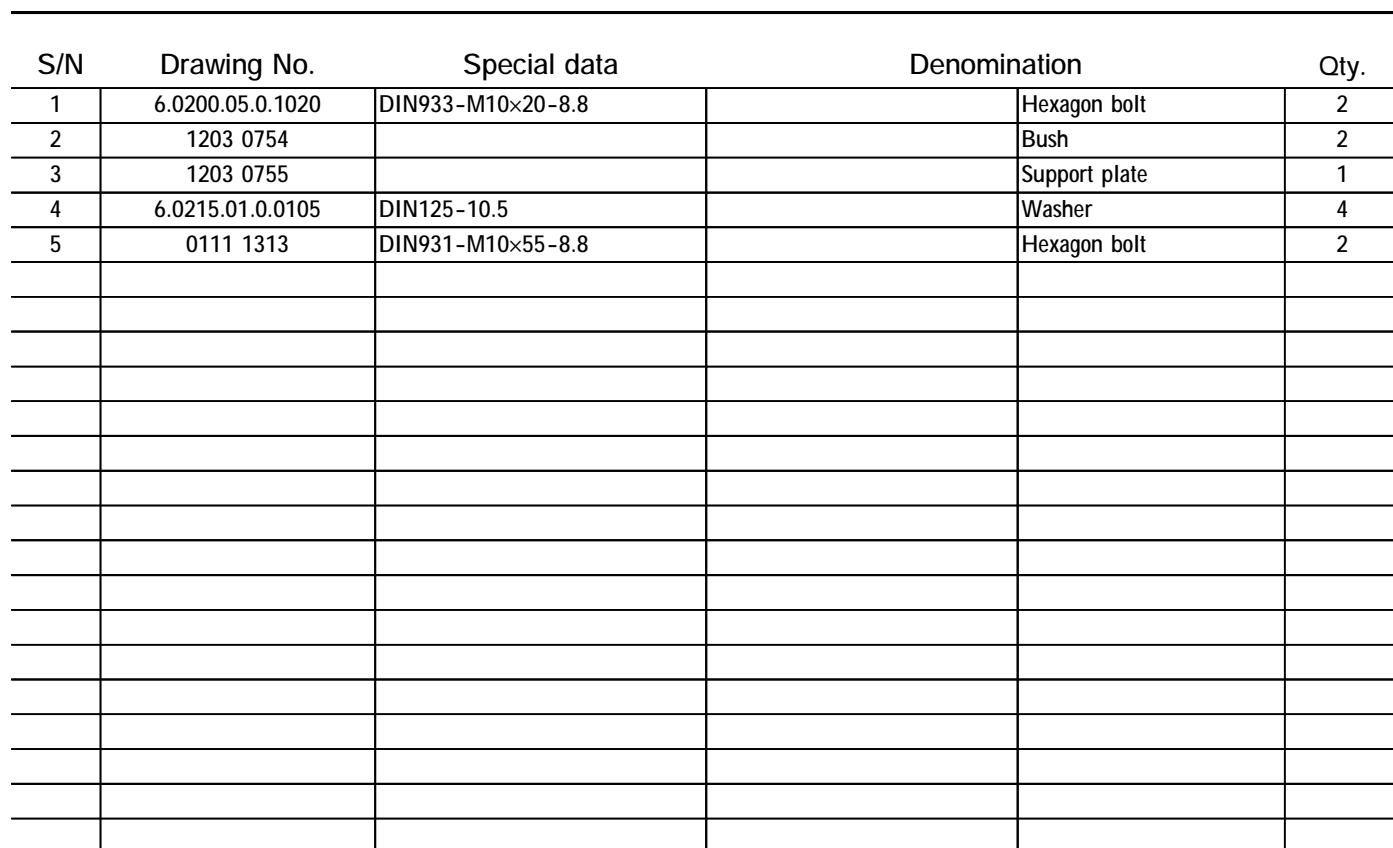
- 163 -

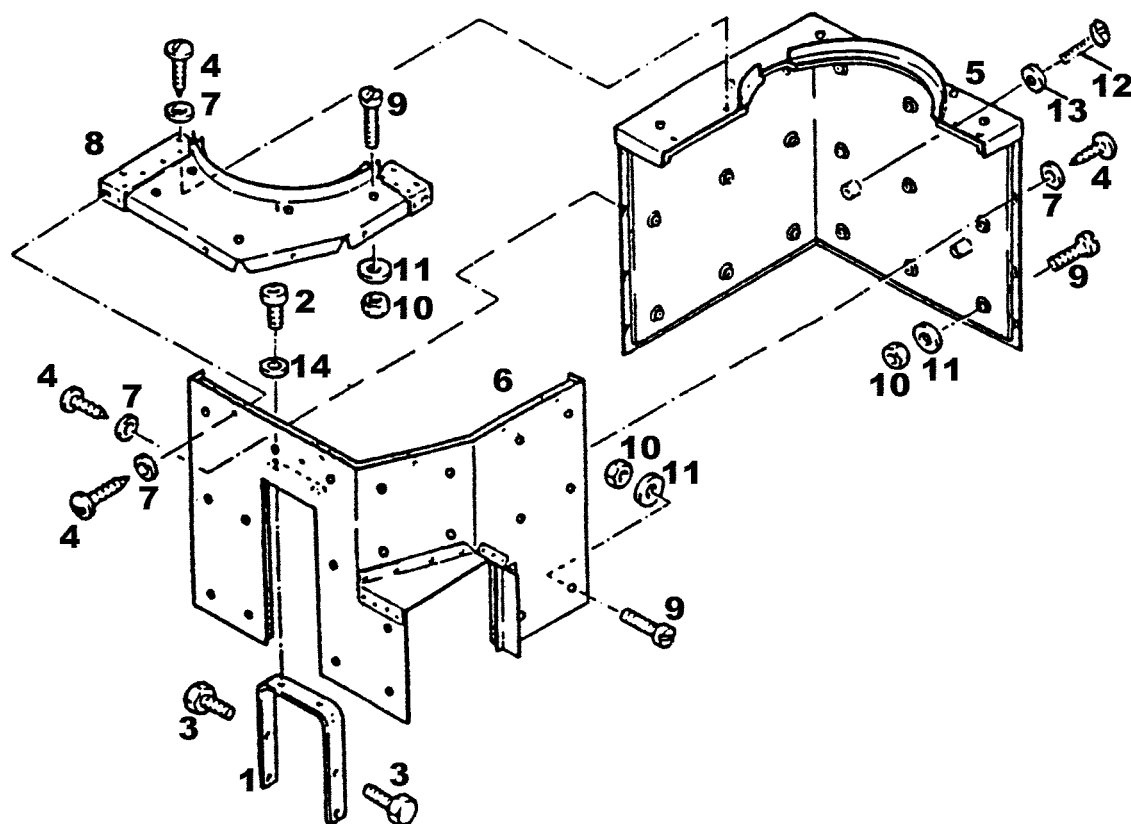
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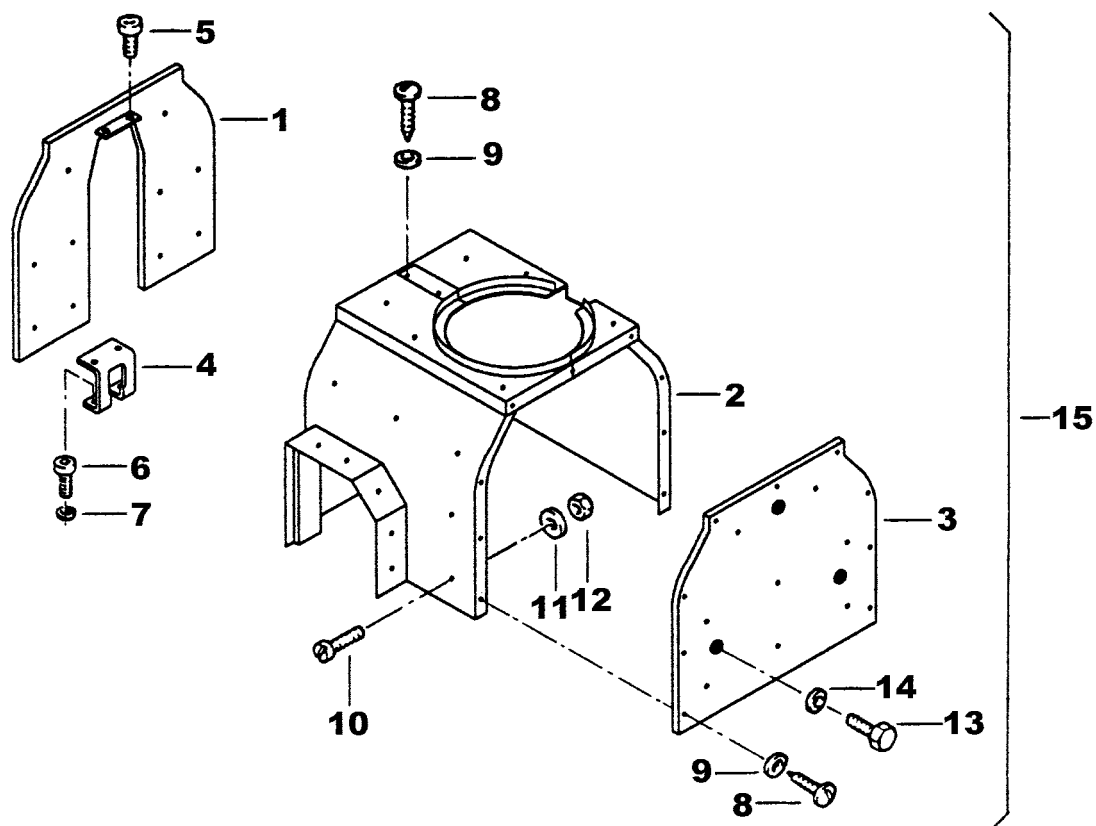


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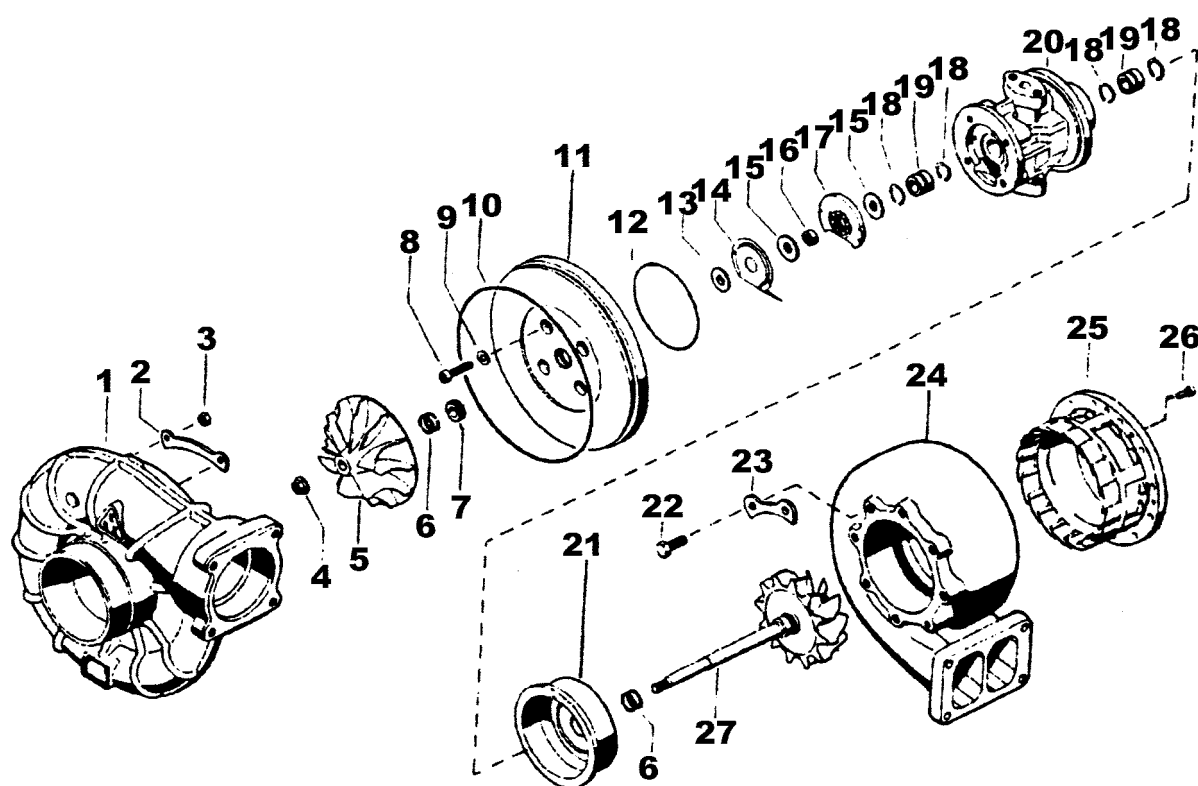




S/N	Drawing No.	Special data	Denomination	Qty.
1	1213 4588		Bracket	1
2	0111 0548	DIN912-M8×12-8.8	Cheese head screw	2
3	6.0200.05.0.1015	DIN933-M10×16-8.8	Hexagon bolt	4
4	0113 7533	DIN7981-ST5.5×13	Self-tapping screw	17
5	1213 5228		Sheeting	1
6	1213 4108		Sheeting	1
7	0110 4946	DIN9021-A5.3	Plain washer	17
8	1213 5233		Sheeting	1
9	0110 5593	DIN84-AM5×25-4.8	Cheese head screw	50
10	0111 2803	DIN934-M5-8	Hexagon nut	50
11	0121 0424		Plain washer	50
12	0111 2360	DIN933-M8×50-8.8	Hexagon bolt	2
13	6.0215.01.0.0084	DIN125-8.4	Plain washer	2
14	0110 7548	H2398-C-433-8.4	Plain washer	2



S/N	Drawing No.	Special data	Denomination	Qty.
1	4000 0256		Sheeting	1
2	4000 0266		Sheeting	1
3	4000 0276		Sheeting	1
4	4000 0193		Bracket	1
5	0111 0548	DIN912-M8×12-8.8	Cheese head screw	2
6	6.0200.70.0.1025	DIN912-M10×25-10.9	Cheese head screw	2
7	0111 9613	DIN7980-10	Spring lock washer	2
8	0113 7533	DIN7981-ST5.5×13	Self-tapping screw	20
9	0110 4946	DIN9021-A5.3	Plain washer	20
10	4000 0264	DIN84-AM5×22-4.8	Cheese head screw	47
11	0121 0424		Plain washer	47
12	6.0210.05.0.0050	DIN934-M5-8-A	Hexagon nut	47
13	4000 0253	DIN933-M10×33-8.8	Hexagon bolt	3
14	0110 2833	DIN128-A10	Spring lock washer	3
15	4000 0252		Paneling	1



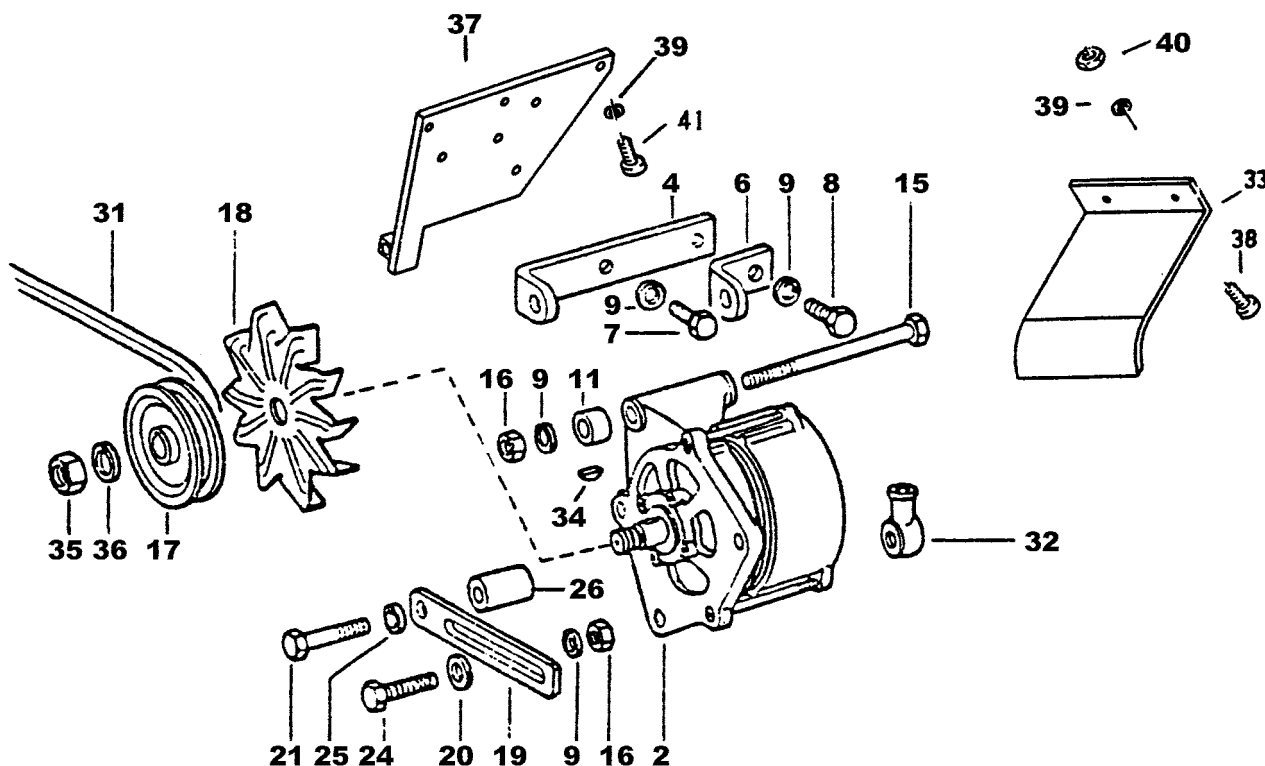
S/N	Drawing No.	Special data	Denomination	Qty.
1	0132 1393		Compressor house	1
2	1212 9943		Quadrant	5
3	0405 0328		Locking nut	10
4	0405 0336		Shaft nut	1
5	1212 9946		Compressor rotor	1
6	0405 0311		Piston ring	4
7	0405 0316		Sealing bush	1
8	0405 0323		Cheese head screw	4
9	1203 4817		Plain washer	4
10	1212 9944		O-ring	1
11	0132 1347		Rear wall	1
12	0405 0318		O-ring	1
13	0405 0317		Oil deflector	1
14	0405 0315		Oil deflector	1
15	0405 0312		Bearing race	2
16	0405 0313		Bush	1
17	0405 0314		Thrust bearing	1
18	0405 0308		Circlip	4
19	1212 9941		Bearing bush	2
20	0405 0340		Bearing housing	1
21	0132 1351		Protective shield	1
22	0404 0333		Hexagon bolt	8

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Drive for dynamo

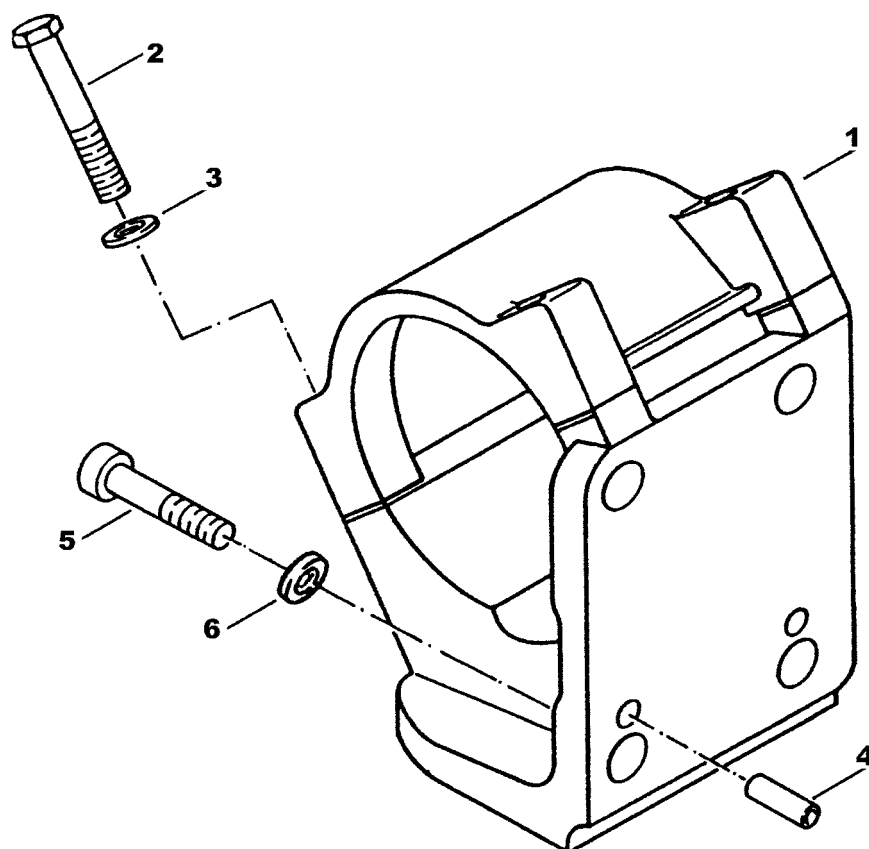
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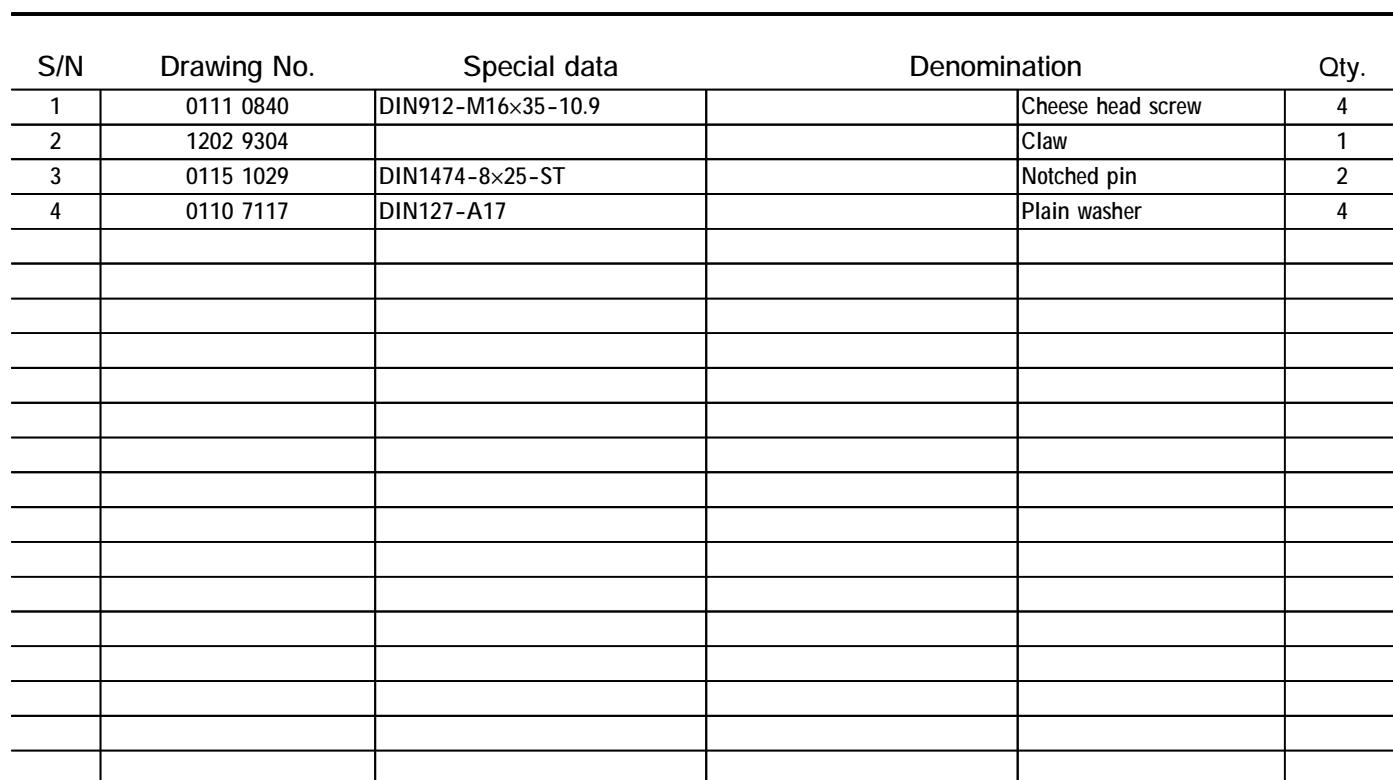


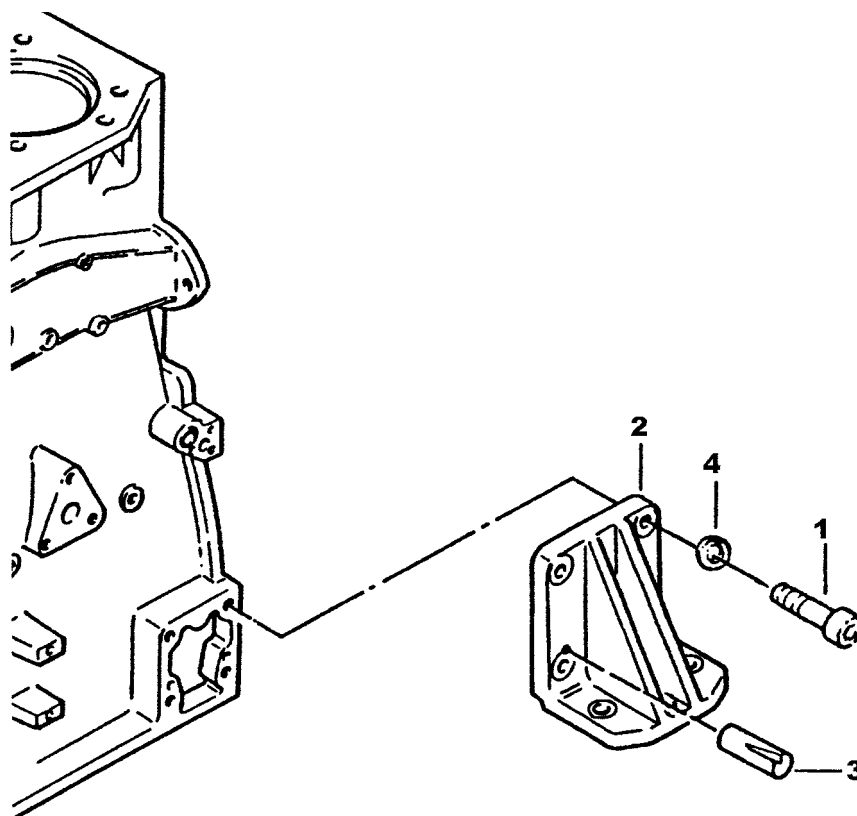
S/N	Drawing No.	Special data	Denomination	Qty.
2	6.0571.01.0.0104	0120400773	Dynamo 28V/28A	1
4	6.232.0.630.046.4		Bracket	1
6	6.232.0.630.047.4		Bracket	1
7	6.0200.05.0.1025	DIN933-M10x25-8.8	Hexagon screw	1
8	6.0200.05.0.1030	DIN933-M10x30-8.8	Hexagon screw	1
9	6.0216.01.0.0100	DIN127-B10	Spring ring	4
11	6.321.4.330.029.4		Bush	1
15	6.0200.01.1.1013	DIN931-M10x130-8.8	Hexagon screw	1
16	6.0210.05.4.0100	DIN934-M10-10	Hexagon nut	2
17	6.0345.20.9.1003		V-belt pulley	1
18	6.0690.21.1.0102		Blade ring	1
19	6.324.0.650.002.4		Shackle	1
20	6.0215.01.0.0105	DIN125-10.5-ST	Washer	1
21	6.0200.01.0.1250	DIN931-M12x50-8.8	Hexagon screw	1
24	6.0200.05.0.1040	DIN933-M10x40-8.8	Hexagon screw	1
25	6.0216.01.0.0120	DIN127-B12	Spring ring	1
26	6.232.0.330.0194		Bush	1
31	6.0345.05.0.1225	DIN7753-9.5x1225La	V-belt	1
32	6.0690.25.8.0101		Cap	1
33	4000 0475		Protection	1
34	6.0235.20.0.4065	DIN6888-4x6.5	Wood ruff key	1
35	6.0210.05.4.1415	DIN934-M14x1.5-10	Hexagon nut	1

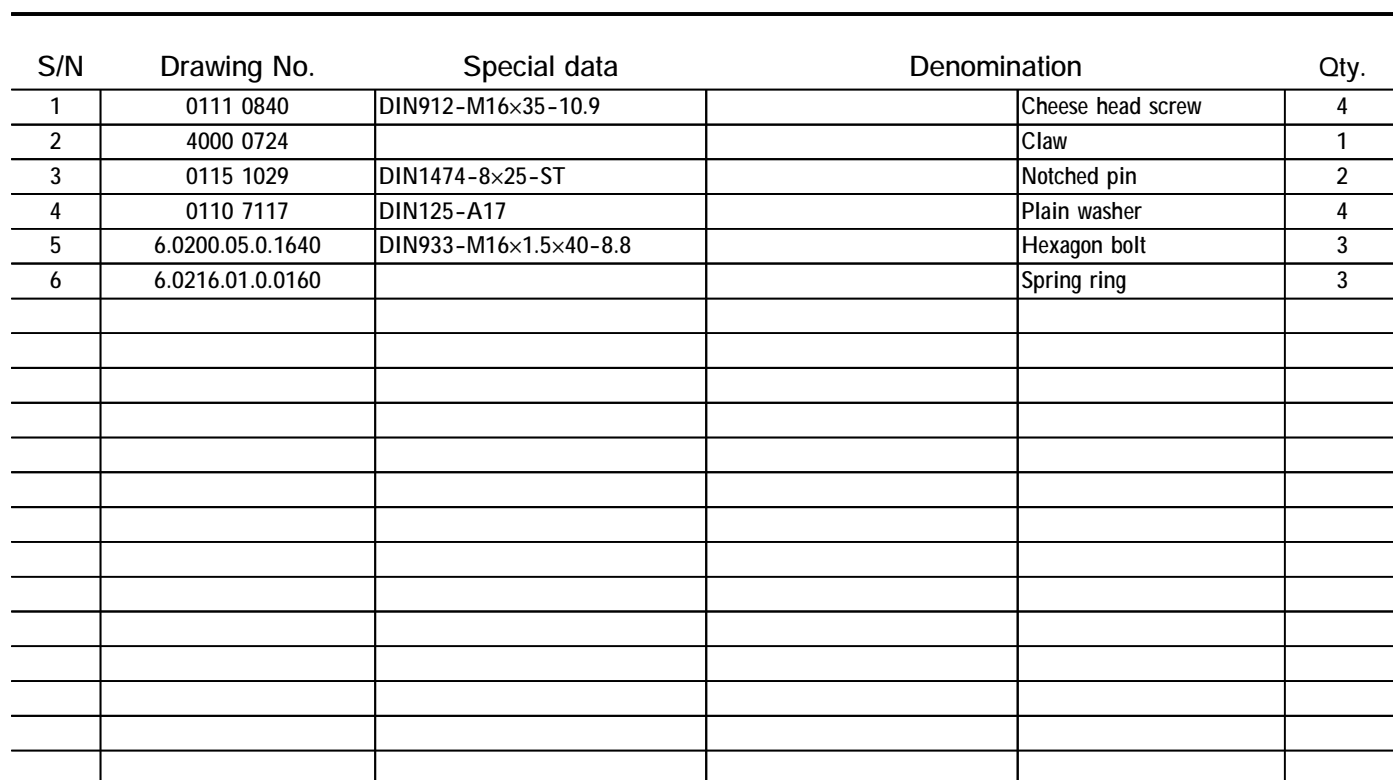
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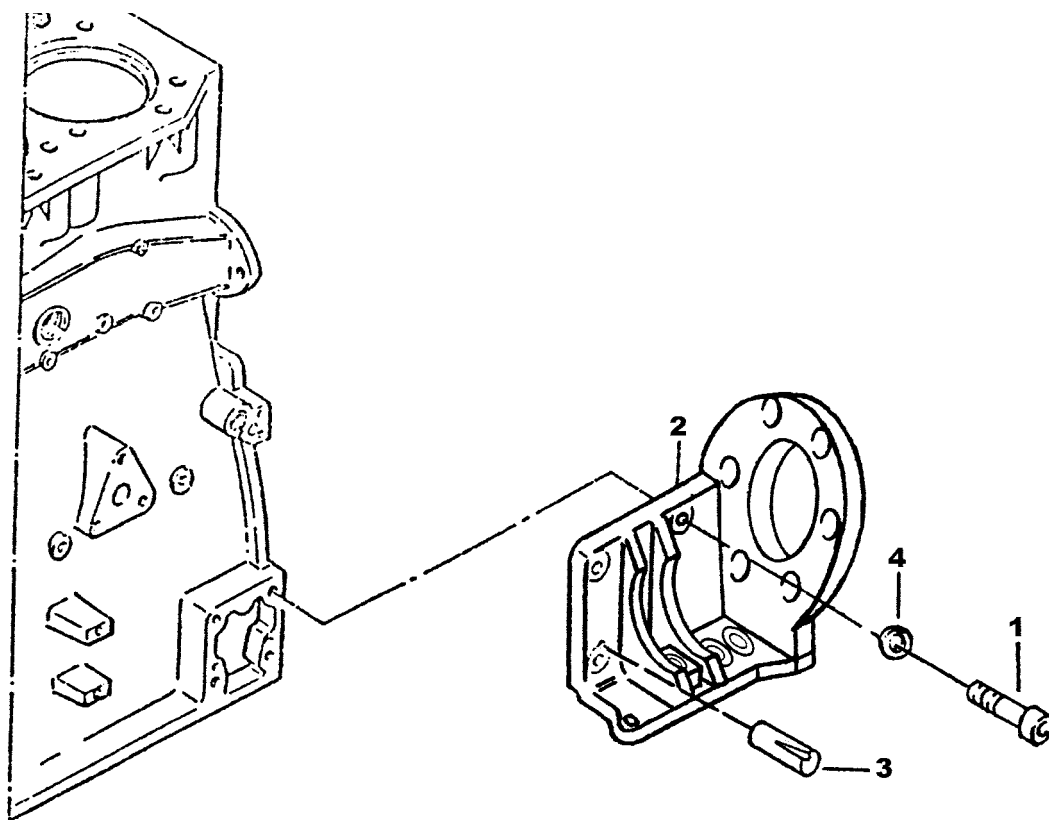
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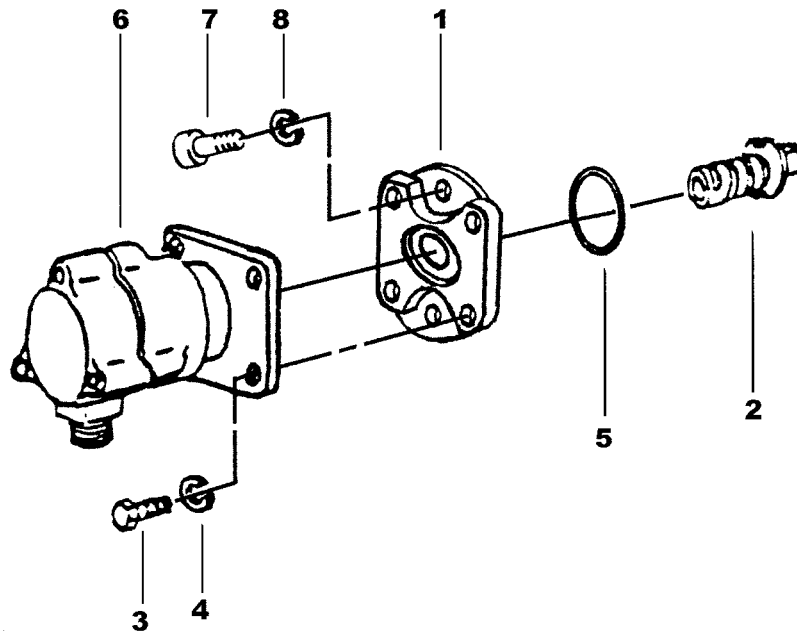
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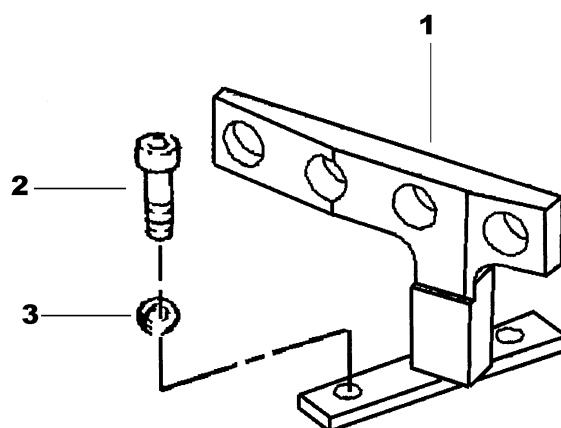


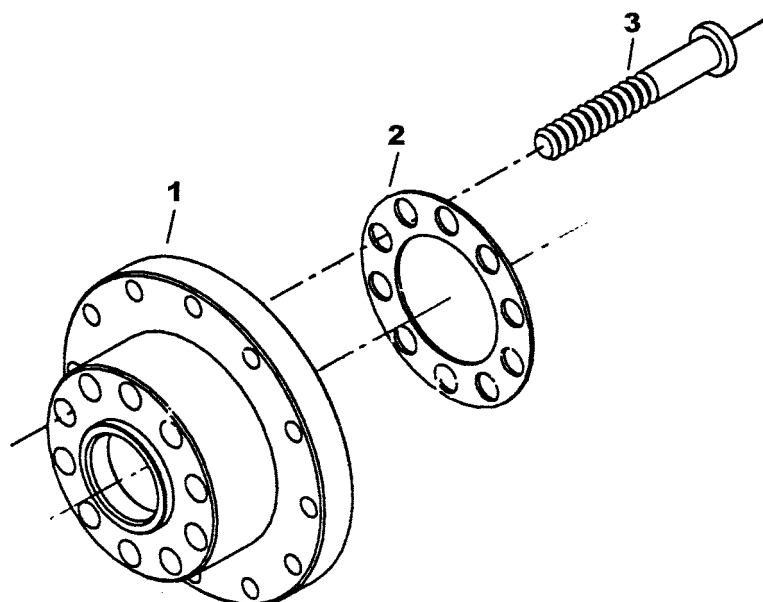
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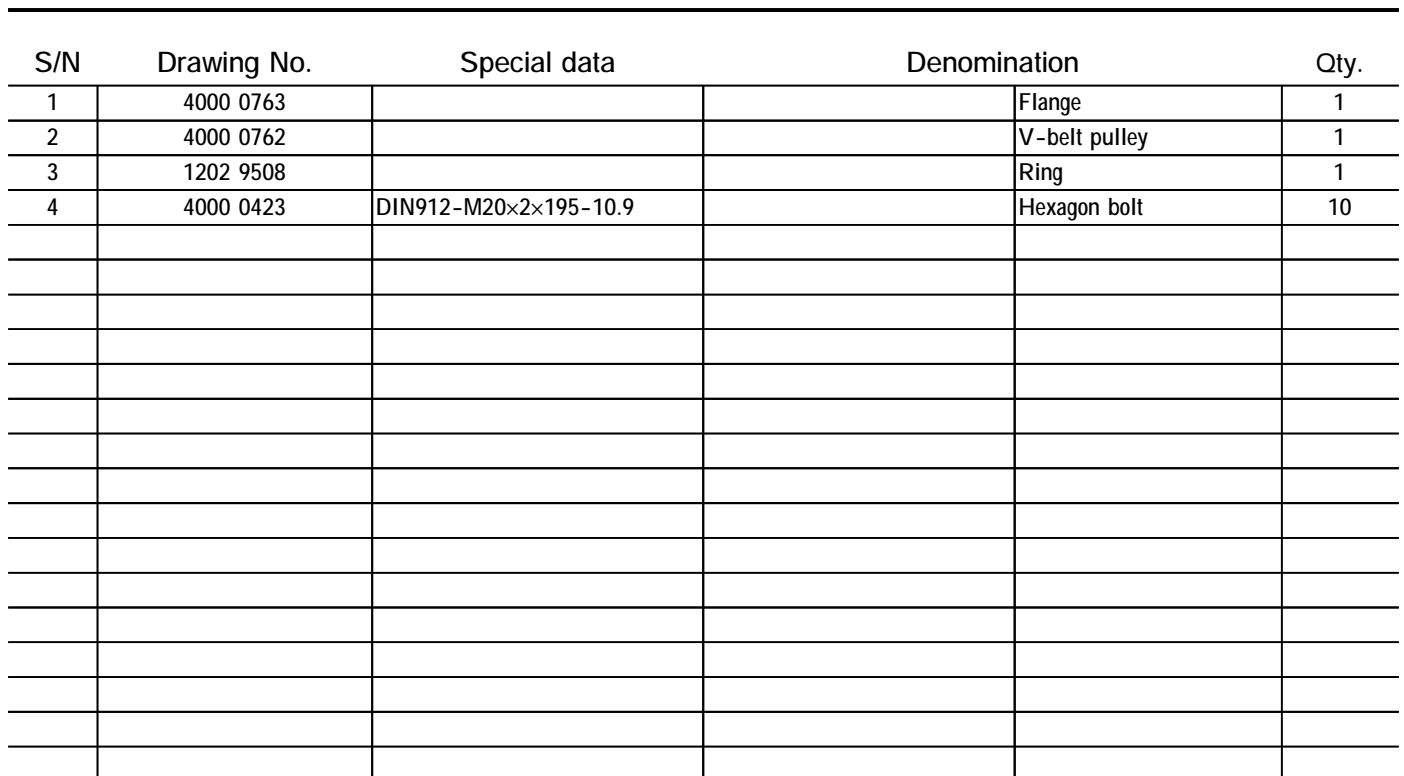


S/N	Drawing No.	Special data	Denomination	Qty.
1	4000 0504		Lever	1

[illegible]

[illegible]

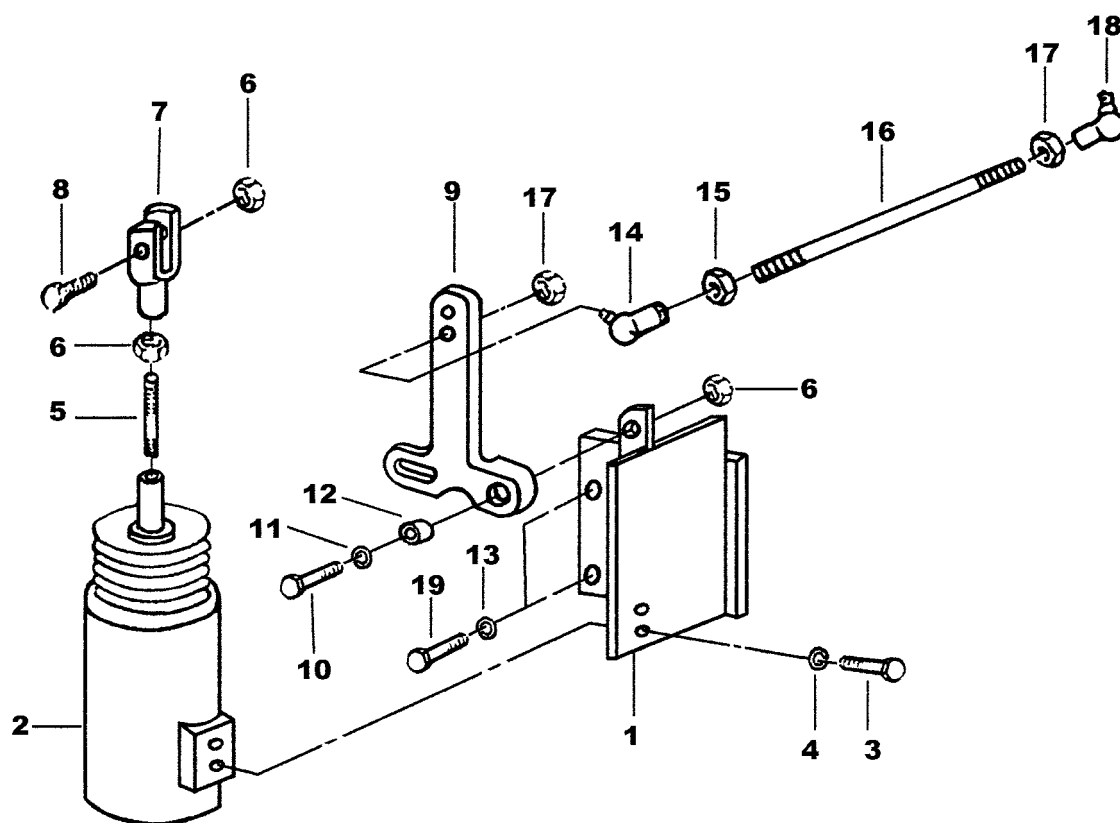
[illegible]



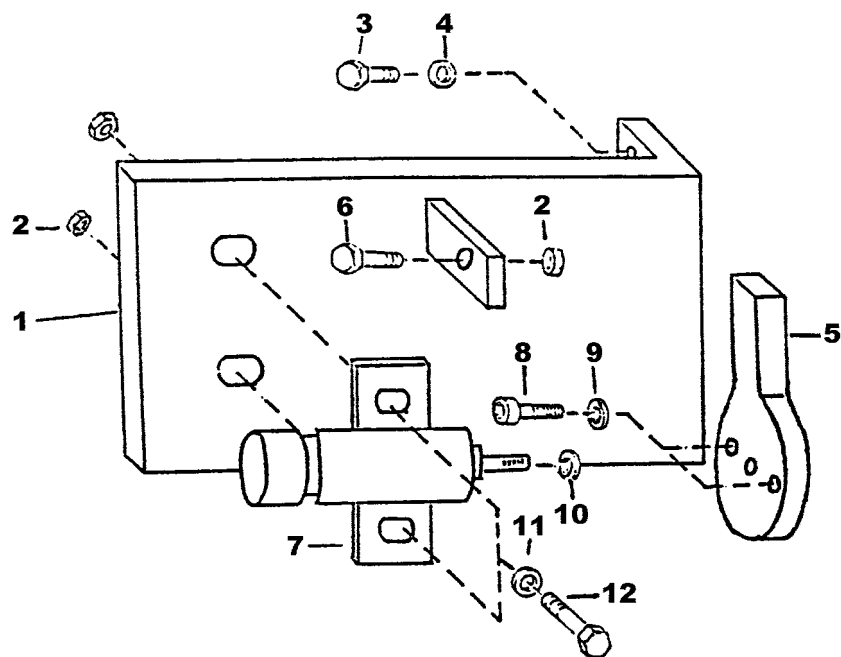
Stopping mechanism

56 508 0896A

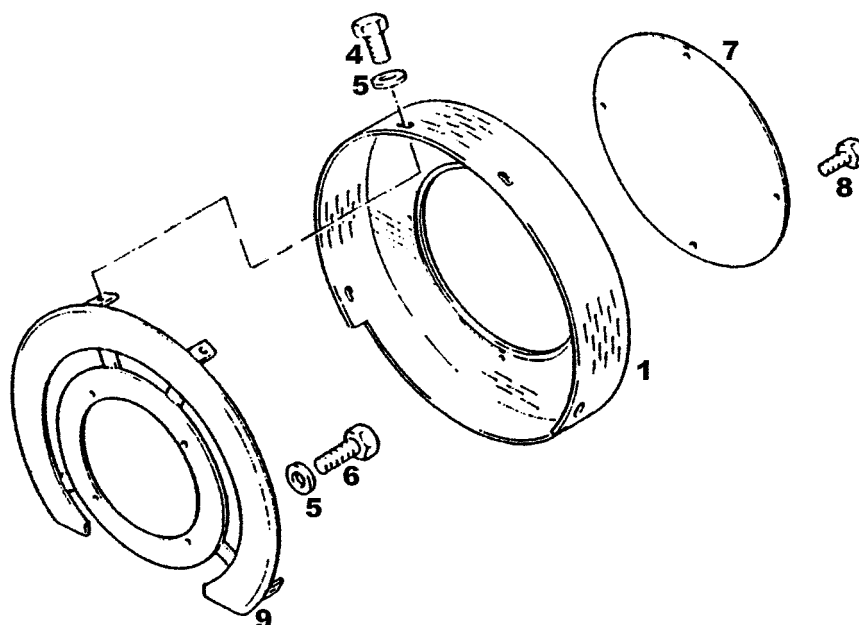
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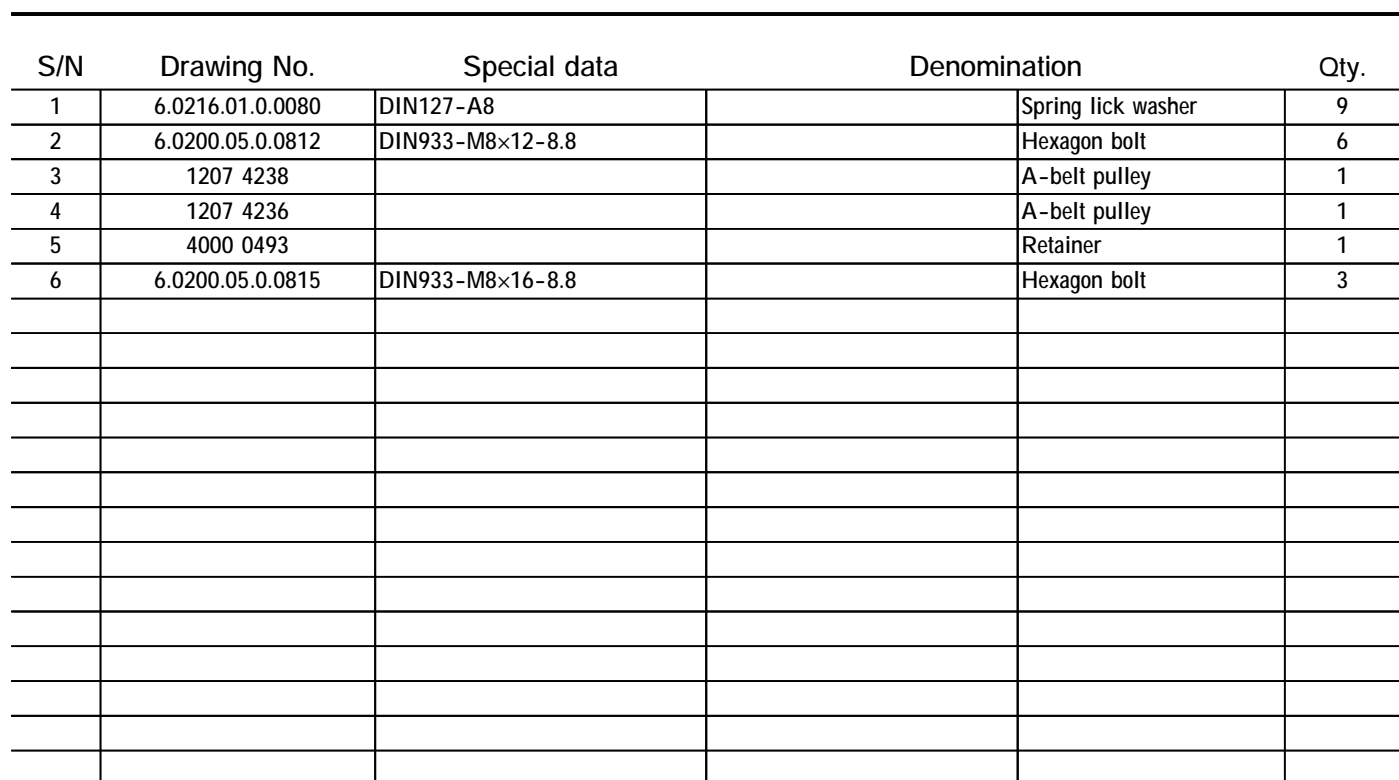
S/N	Drawing No.	Special data	Denomination	Qty.
1	4000 3306		Bracket	1
2	MQZ-4		Liffling magnet	1
3	6.0200.05.0.0615	M6×16 DIN933	Hexagon bolt	2
4	6.0216.01.0.0060	B6 DIN127	Spring ring	2
5	6.0201.10.2.0825	M8×25	Threaded rod	1
6	6.0210.05.4.0080	M8 DIN934	Hexagon nut	3
7	6.0270.01.0.0816	G8×16 DIN934m-10	Yoke end	1
8	6.0200.01.0.0840	M8×40 DIN931	Hexagon bolt	1
9	4000 3342		Lever	1
10	6.0200.05.0.0830	M8×30 DIN933	Hexagon bolt	1
11	6.0215.01.0.0084	A8.4 DIN125-St	Plain washer	1
12	4000 2962		Bush	1
13	6.0216.01.0.0080	B8 DIN127	Spring ring	2
14	6.0270.10.1.1010	AS10 DIN71802	Angular joint	1
15	6.0210.10.0.0006	M6 左 DIN934	Hexagon nut	1
16	6.232.0.320.014.4		Threaded rod	1
17	6.0210.05.4.0060	M6 DIN934m-10	Hexagon nut	2
18	6.0270.10.1.0010	AS10 DIN71802	Angular joint	1
19	6.0200.05.0.0835	M8×35	Hexagon bolt	2

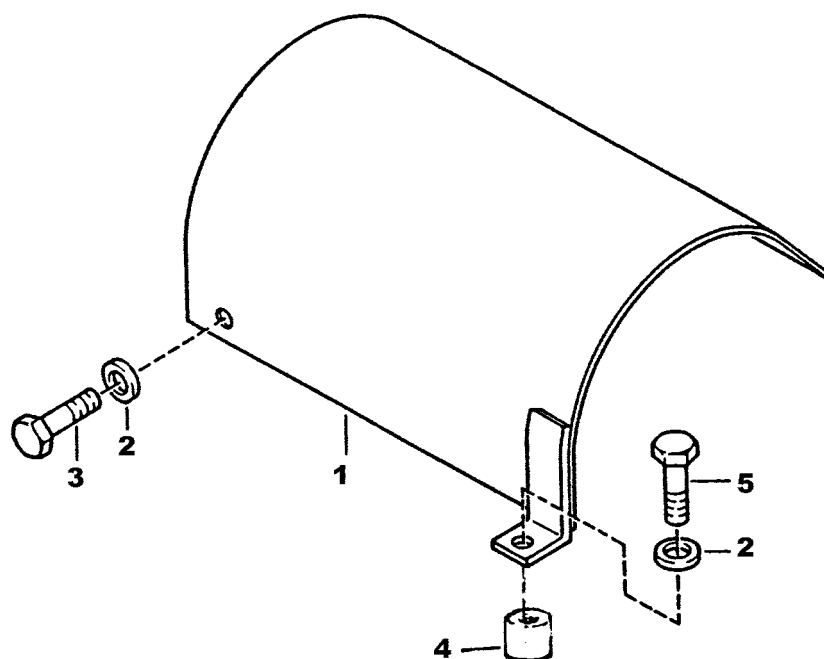


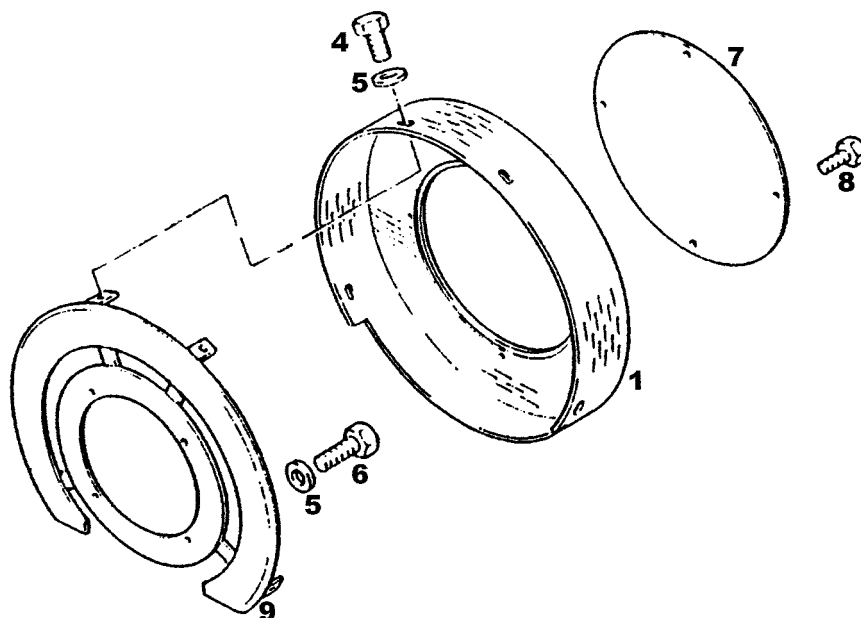
S/N	Drawing No.	Special data	Denomination	Qty.
1	4000 0831		Bracket	1
2	6.0210.05.4.0060	DIN934-M6-10-A	Hexagon nut	3
3	6.0200.05.0.0825	DIN933-M8x25-8.8	Hexagon bolt	2
4	6.0216.01.0.0080	DIN127-B8	Spring lock washer	3
5	4000 0832		Link block	1
6	6.0200.05.0.0640	DIN933-M6x40-8.8	Hexagon bolt	1
7	4000 0849		Lifting magnet	1
8	6.0200.70.0.0512	DIN912-M5x12-10.9	Cheese head screw	2
9	6.0216.01.0.0050	DIN127-B5	Spring lock washer	2
10	4000 0838		Screw bush	1
11	6.0216.01.0.0060	DIN127-B6	Spring lock washer	2
12	6.0200.05.0.0615	DIN933-M6x16-8.8	Hexagon bolt	2



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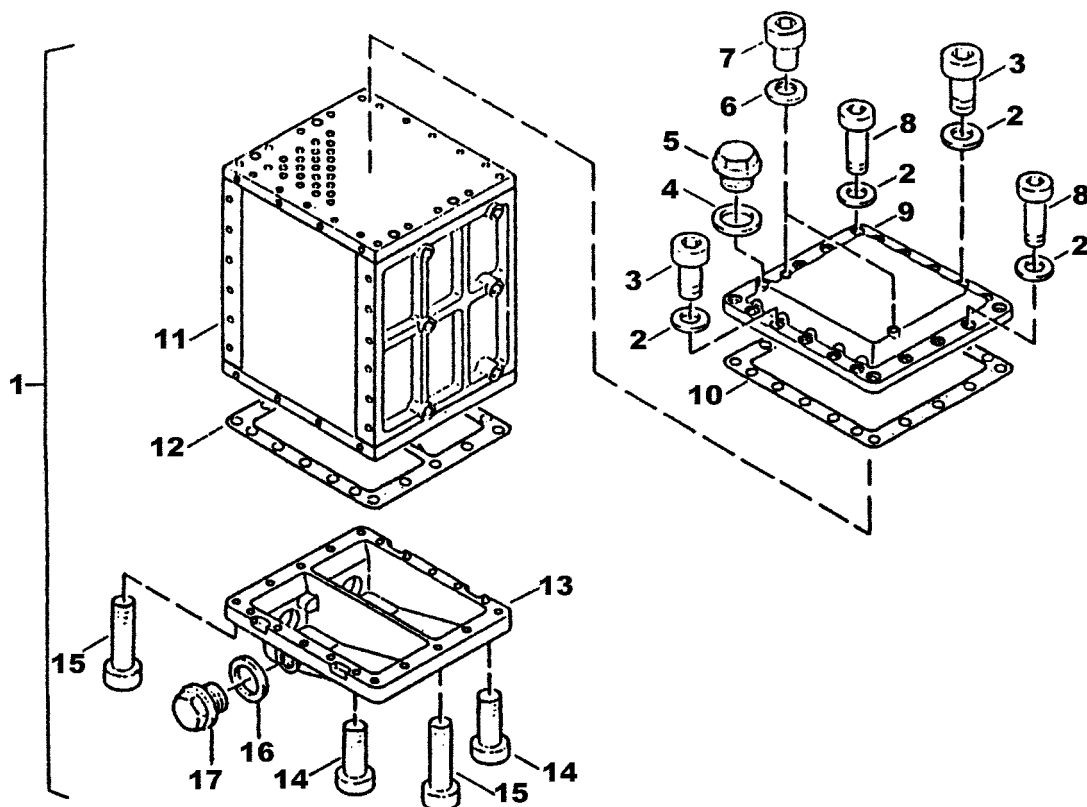
[illegible]

[illegible]

Charge air cooler

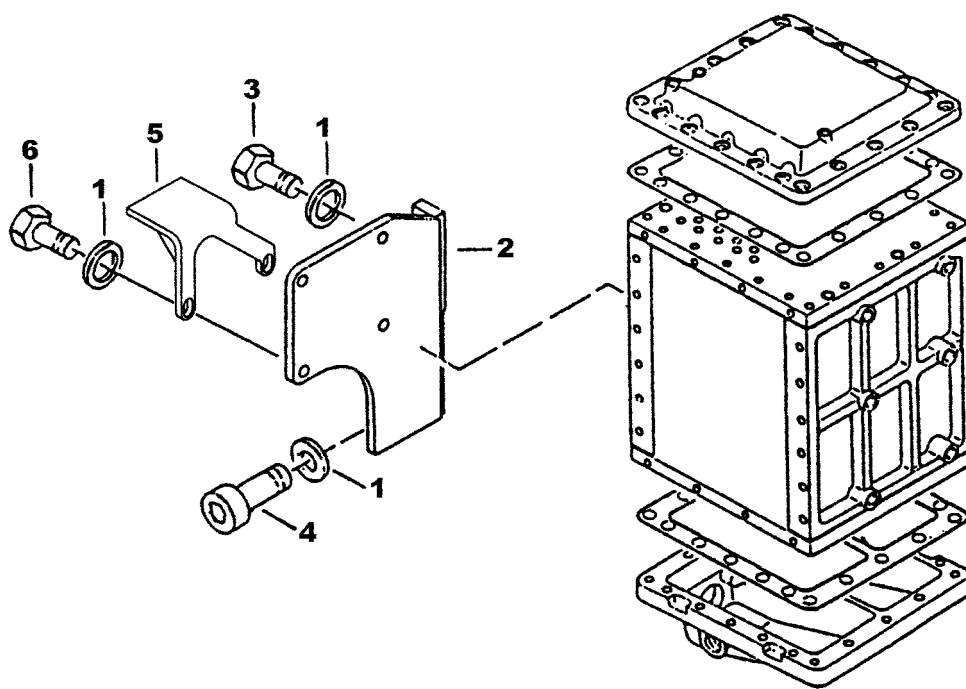
58 508 1242

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S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 0690		Charge air cooler	1
2	0117 8704	H2398-C-433-8.4	Washer	20
3	6.0200.70.0.0825	DIN912-M8×25-10.9	Cheese head screw	10
4	6.0492.01.0.1420	DIN7603-A14×20	Sealing ring	1
5	6.0206.05.0.1415	DIN7604-AM14×1.5	Screw plug	1
6	0115 1319	DIN7603-A10×15	Sealing ring	2
7	0115 1435	DIN908-M10×1	Screw plug	2
8	6.0200.70.0.0845	DIN912-M8×45-10.9	Cheese head screw	10
9	1213 5518		Cover	1
10	1213 5558		Gasket	1
11	1202 9593		Charge air cooler	1
12	1213 5559		Gasket	1
13	1213 5520		Cover	1
14	6.0200.70.0.0840	DIN912-M8×40-10.9	Cheese head screw	10
15	6.0200.70.0.0855	DIN912-M8×55-10.9	Cheese head screw	10
16	6.0492.01.0.2631	DIN7603-A26×31	Sealing ring	1
17	4000 2326	DIN7604-AM26×1.5	Screw plug	1

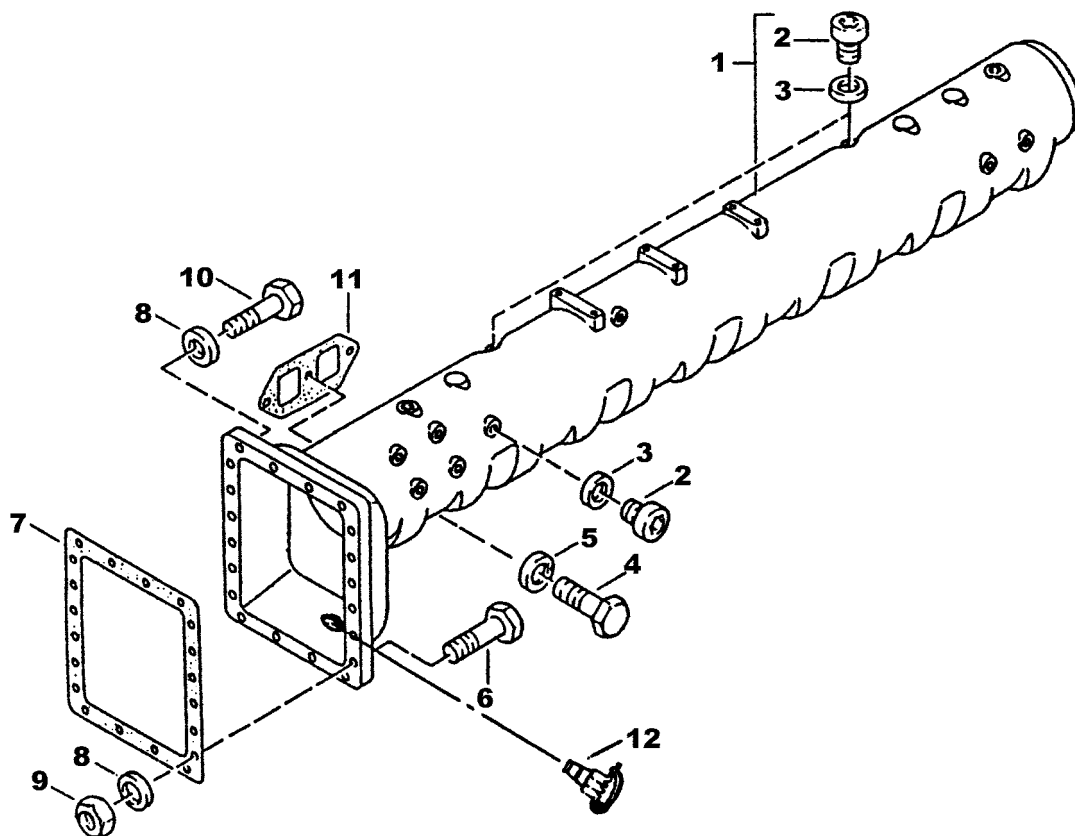
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Air intake pipe

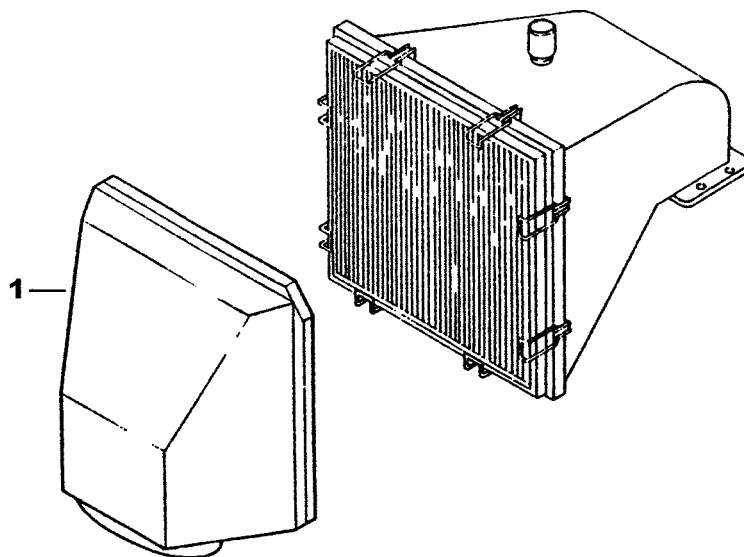
87 508 1221

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S/N	Drawing No.	Special data	Denomination	Qty.
1	1203 0720		Charge air pipe	1
2	4.0206.30.0.1010	DIN908-M10×1	Screw plug	3
3	0115 1319	DIN7603-A10×15	Sealing ring	3
4	0111 2553	DIN933-M12×45-8.8	Hexagon bolt	18
5	6.0215.01.0.0130	DIN125-A13	Washer	18
6	6.0200.01.0.0850	DIN931-M8×50-8.8	Hexagon bolt	12
7	1202 9549		Gasket	1
8	6.0215.01.0.0084	DIN125-A8.4	Washer	20
9	0111 2823	DIN934-M8-8	Hexagon nut	12
10	6.0200.05.0.0835	DIN933-M8×35-8.8	Hexagon bolt	8
11	4202 9606		Gasket	6
12	1M21.6ZT		Overflow valve	1

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[illegible]