

Engine

4600 (2012-) - RS02 - 4645 ISM-VRM-ARM

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A-05
01



A0501

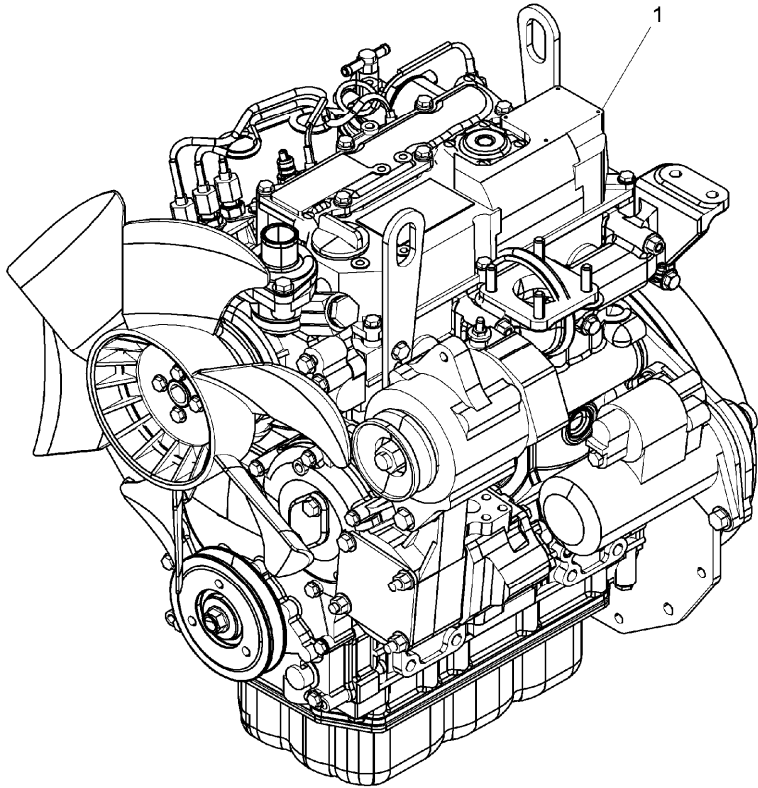
Engine assembly

Inglese

1 6506388M91

Yanmar 3tnv88

1 Engine



Engine

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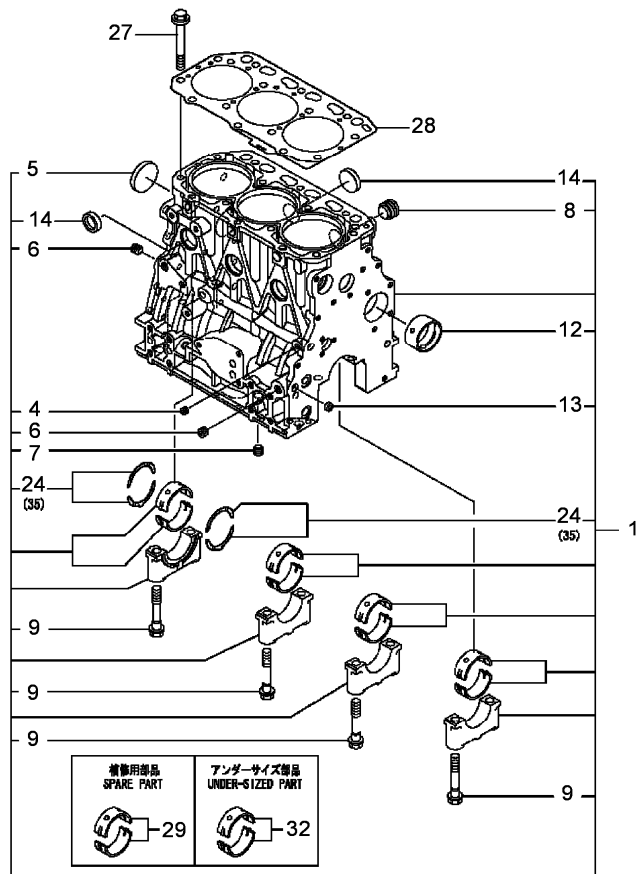
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A-05
02



A0502

Cylinder block



- | | | | |
|----|----------------|---|---|
| 1 | 3681397M1 | | |
| 4 | 3678007M1 | ! | 1 |
| 5 | 3664445M1 | ! | 1 |
| 6 | 3653316M1 | ! | 1 |
| 7 | 3653316M1 | ! | 1 |
| 8 | 3653796M1 | ! | 1 |
| 9 | 3653429M1 | ! | 1 |
| 12 | 4215962M1 | ! | 1 |
| 13 | 3653888M1 | ! | 1 |
| 14 | 3653889M1 | ! | 1 |
| | ● 3653889M2(6) | | |
| 24 | 4215968M1 | ! | 1 |
| 27 | 3653428M1 | | |
| 28 | 3653335M1 | | |
| 29 | 4215967M1 | | |
| 32 | 3653431M2 | | |
| 35 | 4215970M1 | | |
- ! This is a component of an assembly
● Replacement

Inglese

- | | |
|----|----------------|
| 1 | Cylinder block |
| 1 | Plug |
| 1 | Plug |
| 2 | Plug |
| 1 | Plug |
| 1 | Plug |
| 8 | Bolt |
| 1 | Bush |
| 2 | Plug |
| 6 | Plug |
| 2 | Clamp |
| 14 | Stud |
| 1 | Gasket |
| 4 | Kit |
| 4 | Ring |
| 1 | Clamp |

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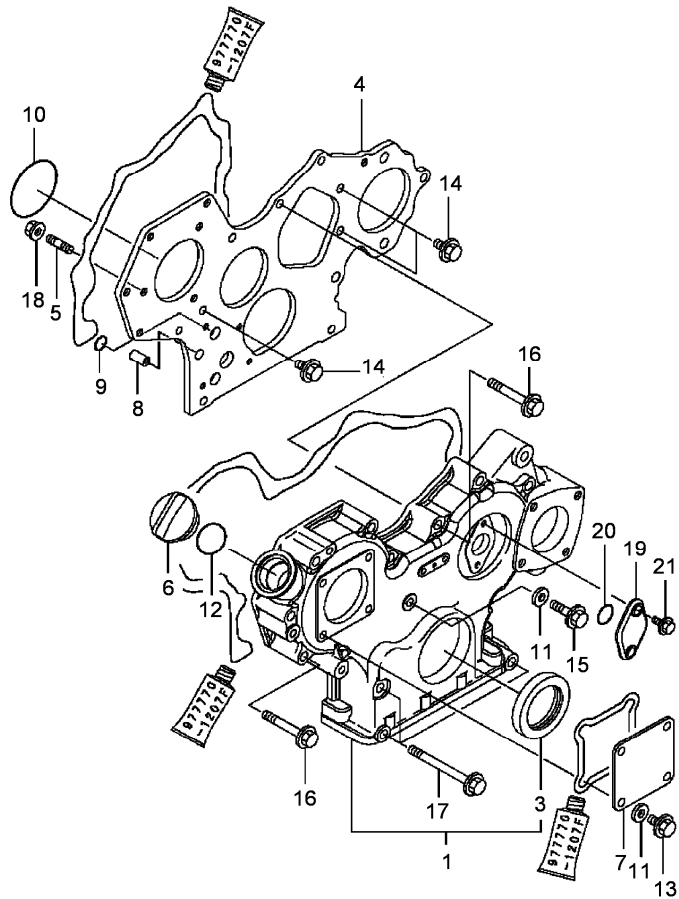
A-05
03



A0503

Distribution cover

RS02\00042541.png



- 1 6514799M91
- 3 4216143M1 ! 1
- 4 6514800M1
- 5 4215973M1
- 6 3653315M1
- 7 3653320M1
- 8 3653789M1
- 9 3677944M1
- 10 3653310M1
- 11 3653808M1
- 12 3653835M1
- 13 3653858M1
- 14 3653858M1
- 15 3666895M1
- 16 3653865M1
- 17 3679984M1
- 18 3666905M1
- 19 4215980M1
- 20 3653841M1
- 21 3653853M1

Inglese

- 1 Cover
- 1 Seal
- 1 Flange
- 3 Bolt
- 1 Plug
- 1 Coperch.
- 2 Bush
- 2 Ring
- 1 Ring
- 5 Washer
- 1 Ring
- 4 Bolt
- 3 Bolt
- 1 Bolt
- 10 Bolt
- 3 Bolt
- 3 Nut
- 1 Coperch.
- 1 Ring
- 2 Bolt

! This is a component of an assembly

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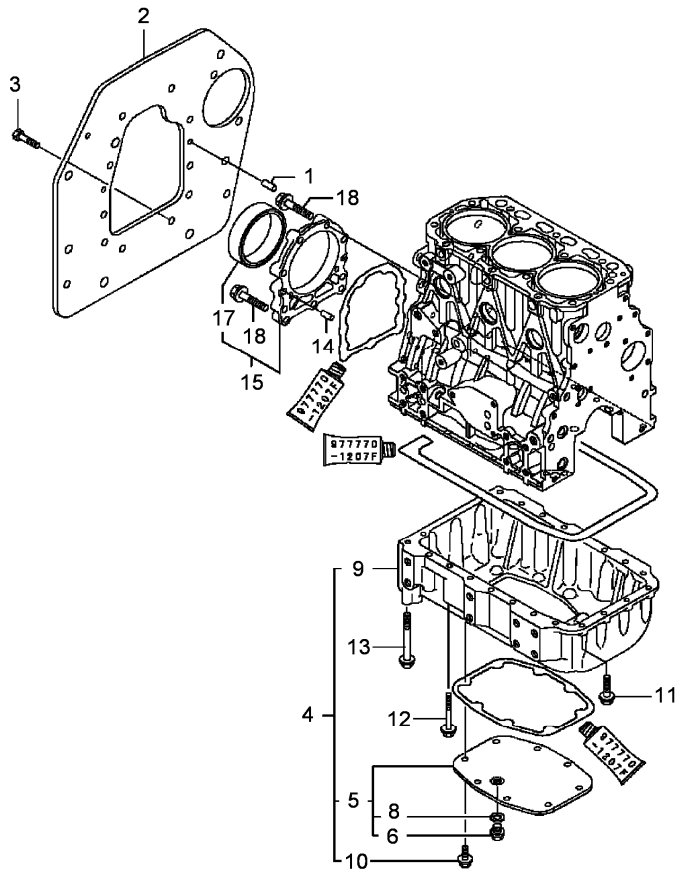
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A-05
04



A0504

Lubricating oil pump and delivery housing



- 1 3653378M1
- 2 4215991M1
- 3 3653872M1
- 4 4215986M91
- 5 4215987M91 ! 4
- 6 3653253M1 ! 5
- 8 3653811M1 ! 5
- 9 4215988M1 ! 4
- 10 3653856M1 ! 4
- 11 3653860M1
- 12 3679984M1
- 13 6510373M1
- 14 3653378M1
- 15 3653379M1 ● 4206673M1(1)
- 17 3653787M1 ! 15
- 3653787M2(1)
- 18 3653772M1

Inglese

- 2 Dowel
- 1 Flange
- 8 Bolt
- 1 Pan
- 1 Plug
- 1 Plug
- 1 Bush
- 1 Pan
- 8 Bolt
- 1 Bolt
- 14 Bolt
- 4 Screw
- 2 Dowel
- 1 Housing
- 1 Seal
- 9 Bolt

! This is a component of an assembly
 ● Replacement

Engine

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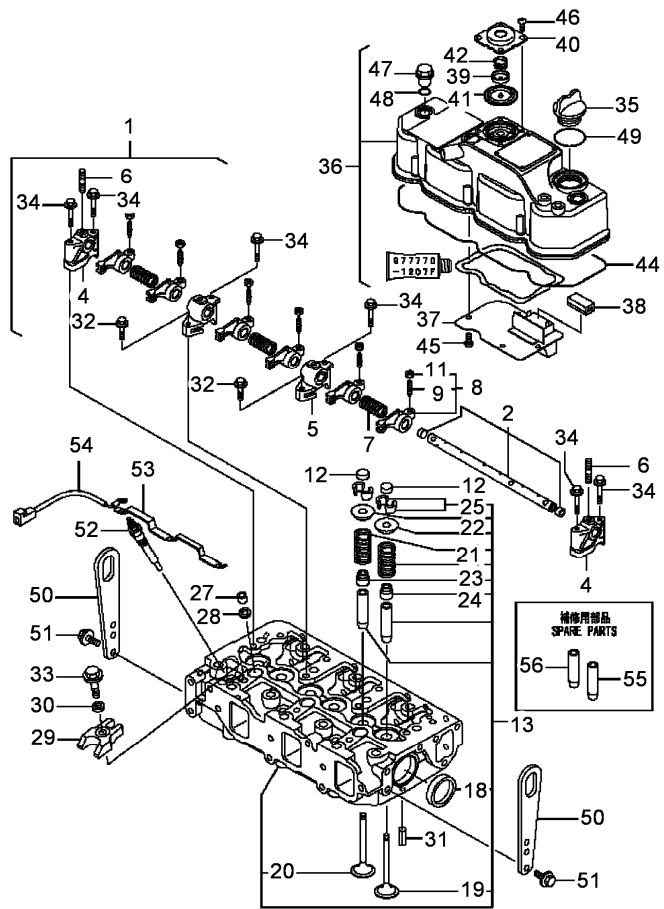
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A0505

Cylinder head-rocker shaft

RS02\00042543.png



- | | | | |
|----|----------------|---|--------------|
| 1 | 3681377M1 | | |
| 2 | 3681378M1 | ! | 1 |
| 4 | 3680185M1 | ! | 1 |
| 5 | 3680186M1 | ! | 1 |
| 6 | 3681374M1 | ! | 1 |
| 7 | 3653440M1 | ! | 1 |
| 8 | 3680188M1 | ! | 1 |
| 9 | 3653439M1 | ! | 8 |
| 11 | 3653444M1 | ! | 8 |
| 12 | 3653443M1 | | |
| 13 | 6515159M91 | | |
| 18 | 3653890M1 | ! | 13 |
| 19 | 3681364M1 | ! | 13 |
| 20 | 4215994M1 | ! | 13 |
| | ● 3653381M2(3) | | |
| 21 | 3653792M1 | ! | 13 |
| 22 | 3653793M1 | ! | 13 |
| 23 | 3653304M1 | ! | 13 |
| 24 | 3653323M1 | ! | 13 |
| 25 | 3680181M1 | ! | 13 |
| 27 | 3677971M1 | | |
| 28 | 3653266M1 | | |
| 29 | 3680182M1 | | |
| 30 | 6514910M1 | ● | 3680183M1(3) |

Inglese

- | | |
|---|---------------|
| 1 | Shaft |
| 1 | Shaft |
| 2 | Support |
| 2 | Support |
| 3 | Stud |
| 3 | Spring |
| 6 | Cam |
| 6 | Screw |
| 6 | Nut |
| 6 | Shim |
| 1 | Cylinder head |
| 2 | Plug |
| 3 | Valve |
| 3 | Valve |
| 6 | Spring |
| 6 | Nameplate |
| 3 | Thimble |
| 3 | Thimble |
| 6 | Cotter |
| 3 | Guard |
| 3 | Washer |
| 3 | Clip |
| 3 | Washer |

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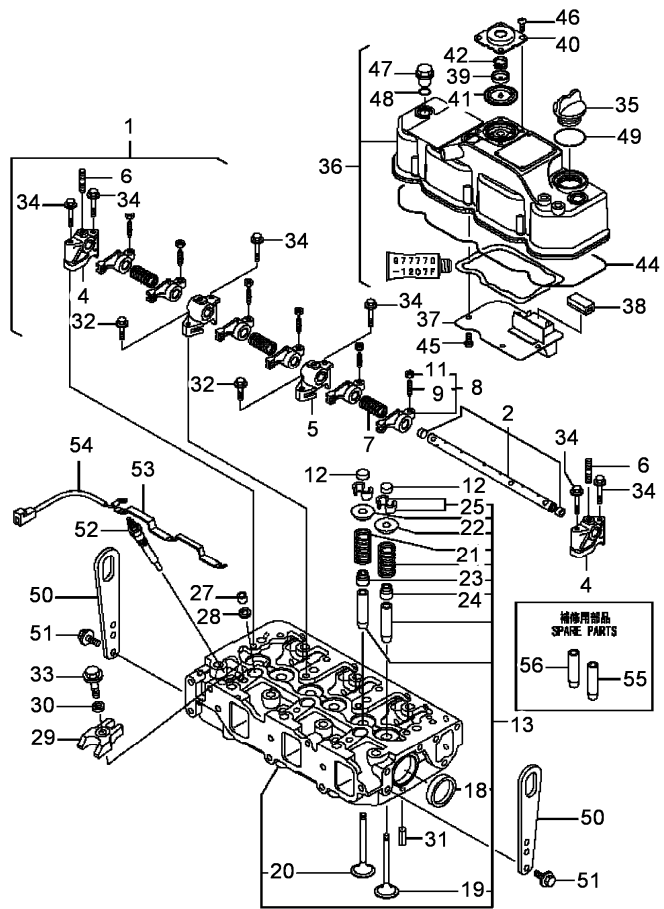
A-05
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A0505

Cylinder head-rocker shaft

RS02\00042543.png



- 31 3653818M1
- 32 3653860M1
- 33 3653861M1
- 34 3653864M1
- 35 3653315M1
- 36 3681380M1
- 37 3680191M1 ! 36
- 38 3653435M1 ! 36
- 39 3680210M1 ! 36
- 40 4215999M1 ! 36
- 41 3680212M1 ! 36
- 42 4216001M1 ! 36
- 44 3681379M1 ! 36
- 45 3665010M1 ! 36
- 46 3665010M1 ! 36
- 47 3653317M1
- 48 3653831M1
- 49 3653835M1
- 50 3664580M1
- 51 3653858M1
- 52 6514912M1
- 53 6515160M1
- 54 6514911M1
- 55 3653298M1

Inglese

- 2 Pin
- 2 Bolt
- 3 Bolt
- 6 Bolt
- 1 Plug
- 1 Coperch.
- 1 Plate
- 1 Guard
- 1 Plate
- 1 Coperch.
- 1 Diaphragm
- 1 Spring
- 1 Gasket
- 4 Screw
- 4 Screw
- 3 Plug
- 3 Ring
- 1 Ring
- 2 Cam
- 4 Bolt
- 3 Plug
- 1 Connection
- 1 Cable
- 3 Guide

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Cylinder head-rocker shaft

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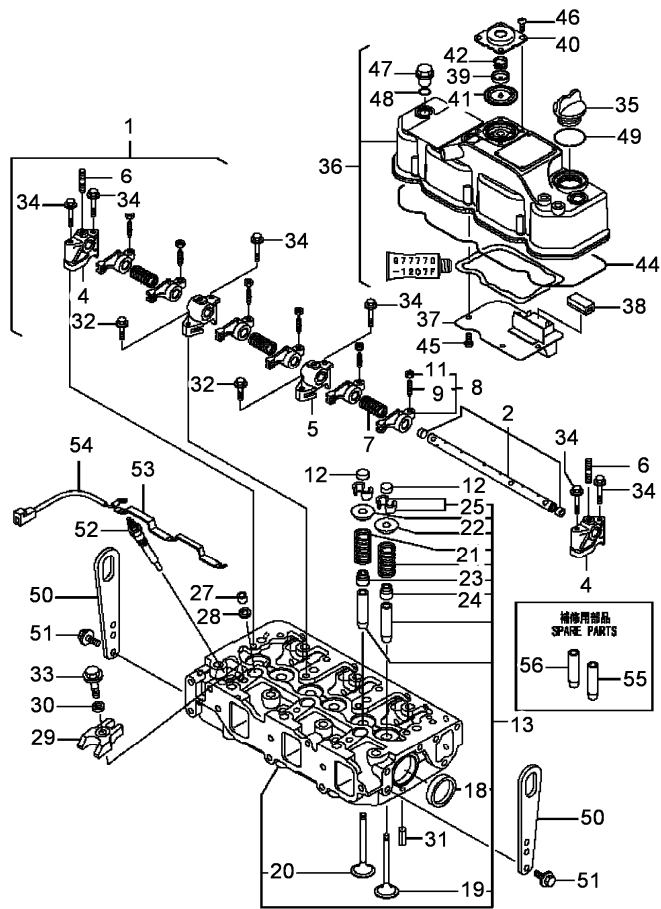
Inglese

56 3653445M1

3 Guide

! This is a component of an assembly

● Replacement



Engine

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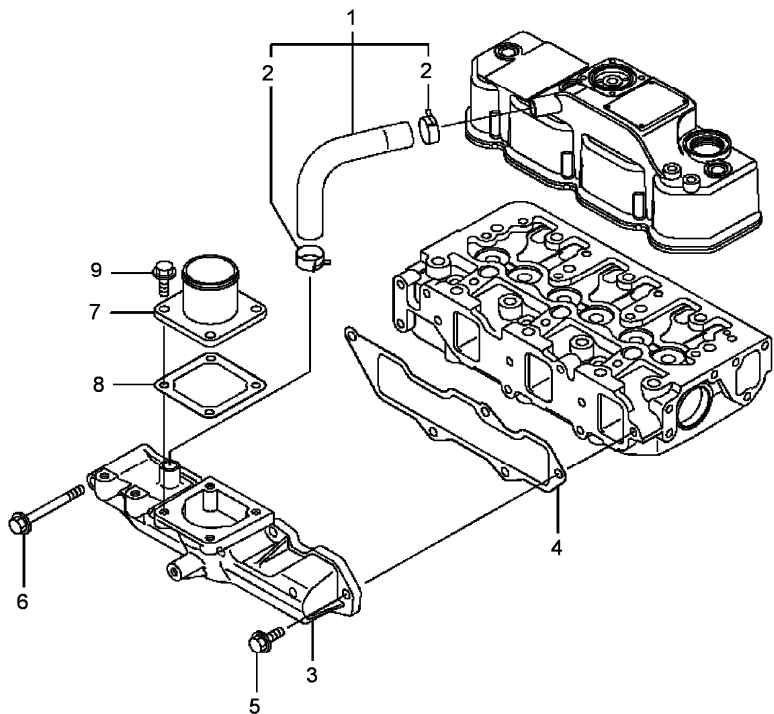
A-05
06



A0506

Induction manifold

RS02\00042544.png



- 1 3680215M1
- 2 3680216M1 ! 1
- 3 6515161M1
- 4 3653337M1
- 5 3653859M1
- 6 3653868M1
- 7 6514914M1
- 8 3653467M1
- 9 3653859M1

Inglese

- 1 Pipe
- 2 Clamp
- 1 Manifold
- 1 Gasket
- 4 Bolt
- 1 Bolt
- 1 Sleeve
- 1 Gasket
- 4 Bolt

! This is a component of an assembly

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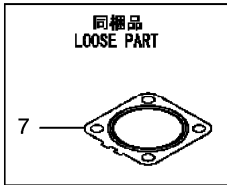
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07



A0507

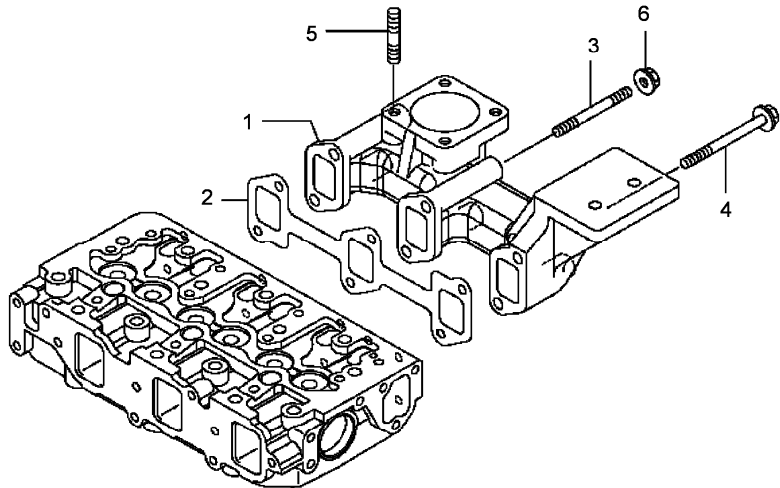
Exhaust manifold



- 1 6515162M1
- 2 3681389M1
- 3 3679694M1
- 4 3679695M1
- 5 3653262M1
- 6 3666905M1
- 7 3681381M1

Inglese

- 1 Manifold
- 1 Gasket
- 2 Stud
- 4 Bolt
- 4 Bolt
- 2 Nut
- 1 Gasket



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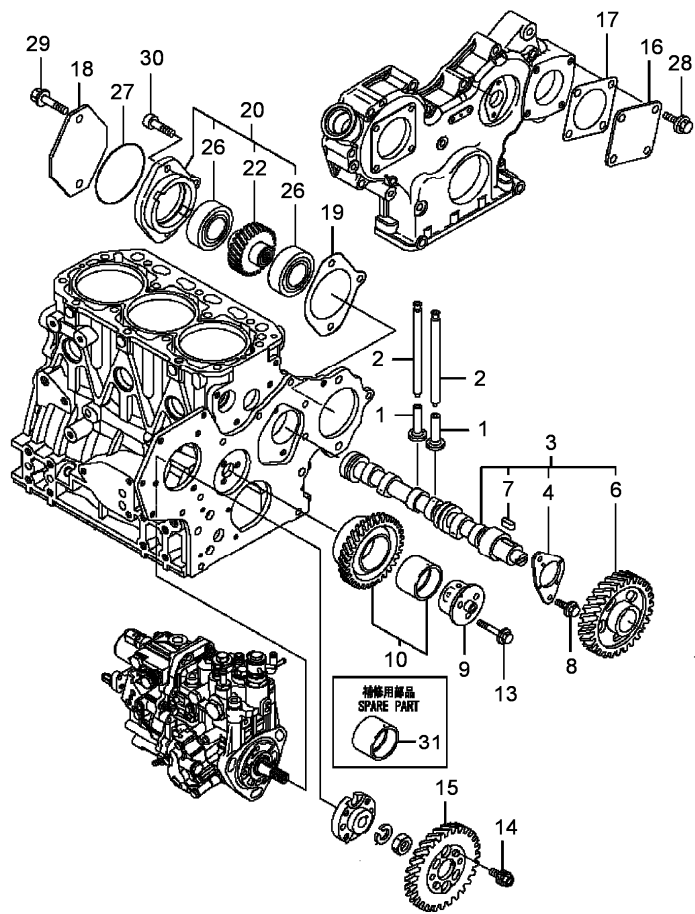
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08



A0508

Timing gear and camshaft



- | | | | |
|----|------------|---|----|
| 1 | 3653447M1 | | |
| 2 | 3653448M1 | | |
| 3 | 3653400M1 | | |
| 4 | 3653430M1 | ! | 3 |
| 6 | 3653446M1 | ! | 3 |
| 7 | 3653820M1 | ! | 3 |
| 8 | 3653857M1 | | |
| 9 | 4218161M1 | | |
| 10 | 4216017M91 | | |
| 13 | 3653862M1 | | |
| 14 | 3664454M1 | | |
| 15 | 3677978M1 | | |
| 16 | 3653320M1 | | |
| 17 | 3653321M1 | | |
| 18 | 6510374M1 | | |
| 19 | 3653800M1 | | |
| 20 | 3653363M1 | | |
| 22 | 3653364M1 | ! | 20 |
| 26 | 3653830M1 | ! | 20 |
| 27 | 3653839M1 | | |
| 28 | 3653858M1 | | |
| 29 | 3653869M1 | | |
| 30 | 3653879M1 | | |
| 31 | 4216018M1 | | |

Inglese

- | | |
|---|----------|
| 6 | Tappet |
| 6 | Rod |
| 1 | Shaft |
| 1 | Plate |
| 1 | Gear |
| 1 | Key |
| 2 | Bolt |
| 1 | Shaft |
| 1 | Gear |
| 3 | Bolt |
| 4 | Screw |
| 1 | Gear |
| 1 | Coperch. |
| 1 | Gasket |
| 1 | Coperch. |
| 1 | Gasket |
| 1 | Kit |
| 1 | Gear |
| 2 | Bearing |
| 1 | Ring |
| 4 | Bolt |
| 2 | Bolt |
| 1 | Bolt |
| 1 | Bush |

! This is a component of an assembly

Engine

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08

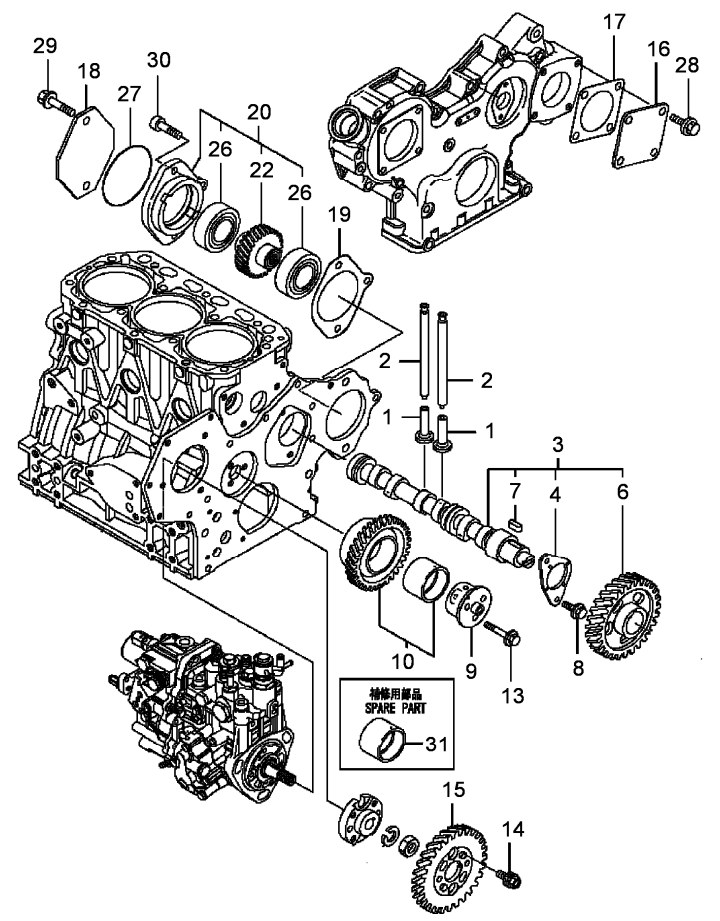
Timing gear and camshaft

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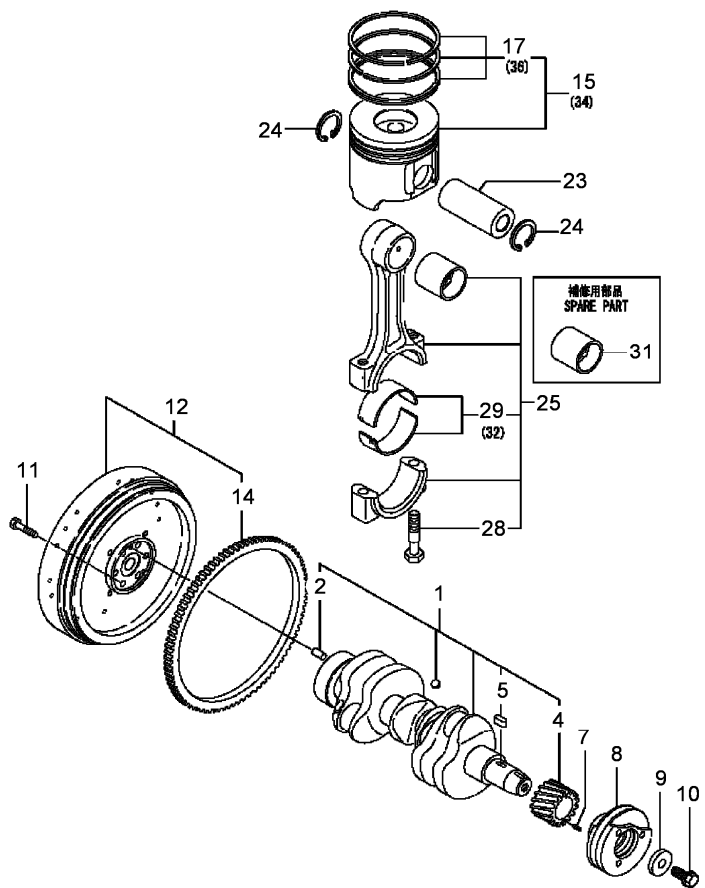
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A0509

Crankshaft, pistons and connecting rods

RS02\00042547.png



1	6515163M91		
2	3653378M1	!	1
4	4218160M1	!	1
5	3653820M1	!	1
7	3678301M1		
8	6515164M1		
9	3653794M1		
10	3653309M1		
11	3653301M1		
12	4216030M91		
14	3653297M1	!	12
15	3681365M1		
17	3681366M1	!	15
23	3653731M1		
24	3653815M1		
25	3653897M1		
28	3653307M1	!	25
29	4216034M1	!	25
31	3653383M1		
32	4216035M1		
34	3681367M1	✕	+0,25
36	3681368M1	✕	+0,25
		!	34

Inglese

1	Shaft
1	Dowel
1	Gear
1	Key
1	Spring
1	Pulley
1	Washer
1	Bolt
6	Bolt
1	Flywheel
1	Crownwheel
3	Piston
1	Kit
3	Cotter
6	Clip
3	Conrod
2	Bolt
1	Thimble
3	Bearing
3	Thimble
3	Piston
1	Kit

! This is a component of an assembly
✕ Shim

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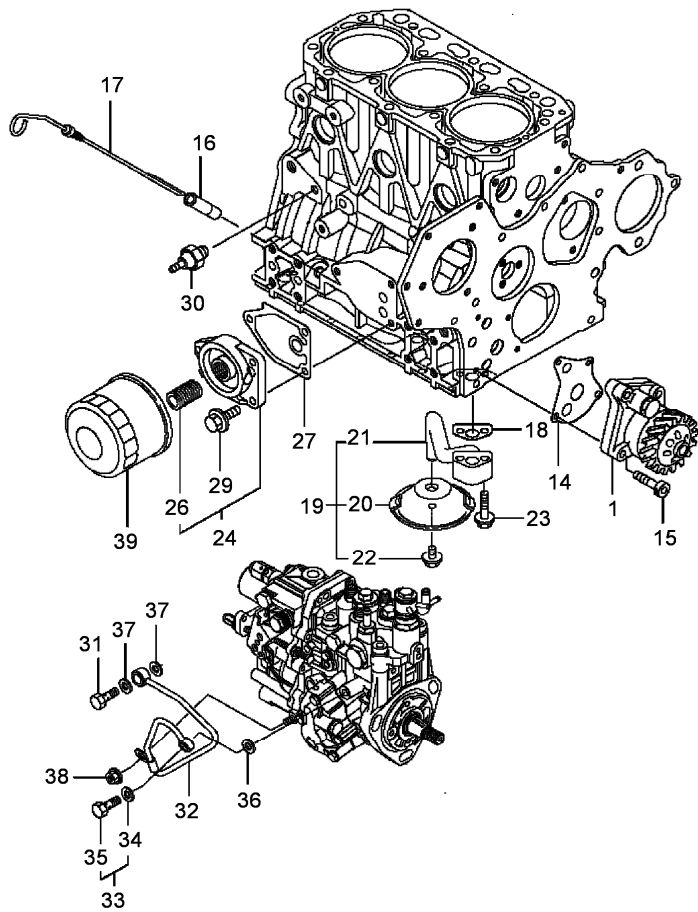
RS02\00042548.png

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A0510

Lubricating oil pump and delivery housing-oil filter



		Inglese
1	3653346M1	1 Pump
14	3653455M1	1 Gasket
15	3653878M1	4 Bolt
16	3653306M1	1 Guide
17	4216042M1	1 Rod
18	3653456M1	● 3653456M2(1) 1 Gasket
19	4216044M1	1 Kit
20	4216045M1	! 19 1 Filter
21	4216047M1	! 19 1 Pipe
22	3653856M1	! 19 1 Bolt
23	3653861M1	2 Bolt
24	3680224M1	1 Stirrup
26	3680225M1	! 24 1 Stud
27	3653458M1	1 Gasket
29	3653859M1	3 Bolt
30	3664370M1	1 Cutout
31	3653318M1	1 Bolt
32	3680223M1	1 Pipe
33	3678024M1	1 Bolt
34	3653808M1	! 33 1 Washer
35	3665013M1	! 33 1 Bolt
36	3653808M1	1 Washer
37	3653809M1	2 Washer
38	3653876M1	1 Nut

Engine

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A0510

Lubricating oil pump and delivery housing-oil filter

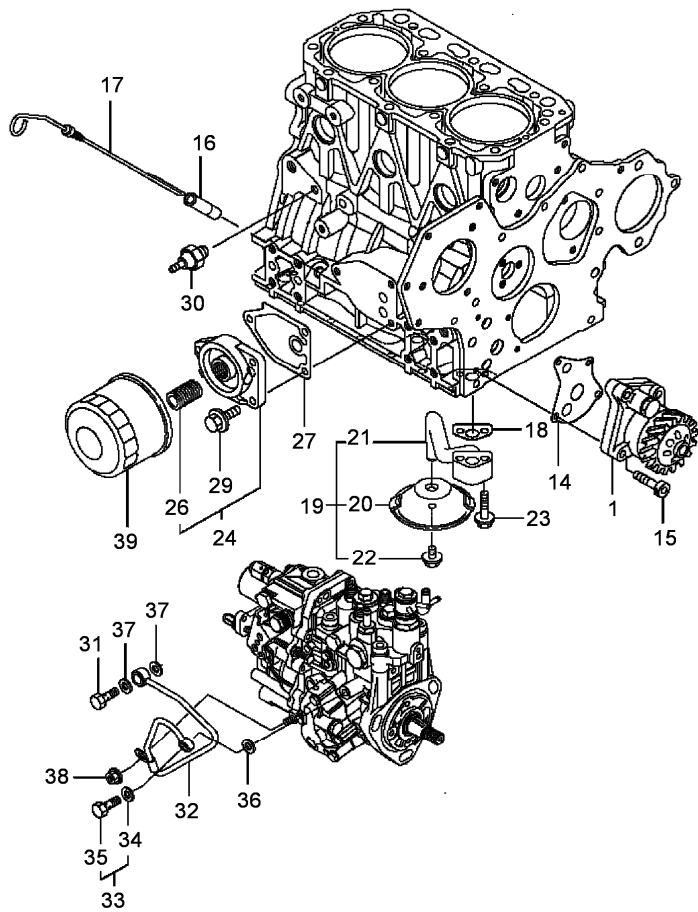
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Inglese

39 3678034M1 ● 3678034M2(1) 1 Filter

! This is a component of an assembly


● Replacement



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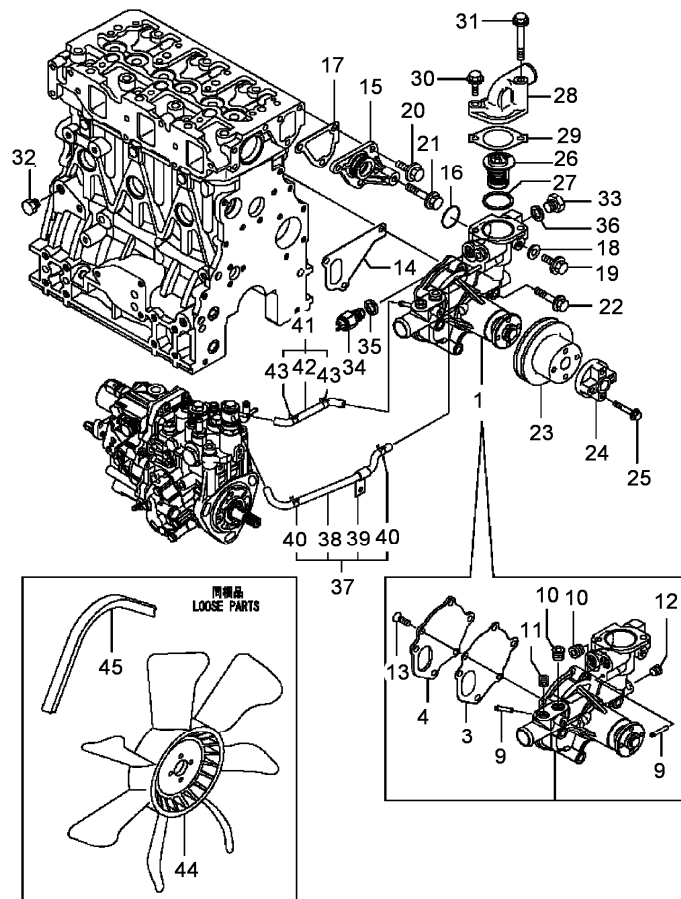
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A0511

Water pump, thermostat and heat exchanger

RS02\00042549.png



		Inglese
1	3680226M1	1 Pump
3	3678031M1 ! 1	1 Gasket
4	3678032M1 ! 1	1 Gasket
9	3677983M1 ! 1	2 Union
10	3678297M1 ! 1	2 Plug
11	3681394M1 ! 1	1 Plug
12	3665017M1 ! 1	1 Plug
13	4216871M1 ! 1	3 Screw
14	3664547M1	1 Gasket
15	3678017M1	1 Gasket
16	3664548M1	1 Ring
17	3664432M1	1 Gasket
18	3653822M1	1 Gasket
19	3653856M1	1 Bolt
20	3653858M1	3 Bolt
21	3653863M1	1 Bolt
22	3653866M1	3 Bolt
23	6515255M1	1 Pulley
24	3653801M1	1 Spacer
25	4216062M1	4 Bolt
26	4216064M1	1 Thermostat
27	3653463M1	1 Gasket
28	3678009M1	1 Coperch.
29	3653795M1	1 Gasket

Engine

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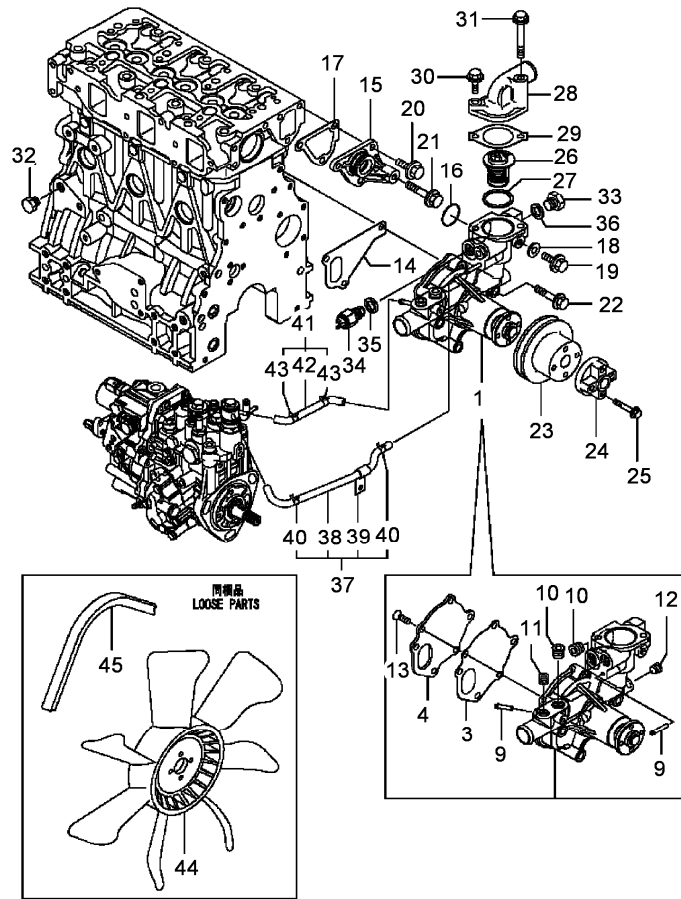
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A0511

Water pump, thermostat and heat exchanger

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Inglese

30	3653860M1		1 Bolt
31	3653867M1		1 Bolt
32	3653797M1		1 Plug
33	4216881M1		1 Plug
34	3653302M1		1 Switch, indirect
35	3653324M1		1 Gasket
36	3653324M1		1 Gasket
37	3678018M1		1 Pipe
38	3678020M1	! 37	1 Pipe
39	3677984M1	! 37	1 Clamp
40	3678010M1	! 37	2 Clamp
41	3678019M1		1 Pipe
42	3678021M1	! 41	1 Pipe
43	3678010M1	! 41	2 Clamp
44	3674559M1		1 Fan
45	3653844M1		1 Belt
!	This is a component of an assembly		

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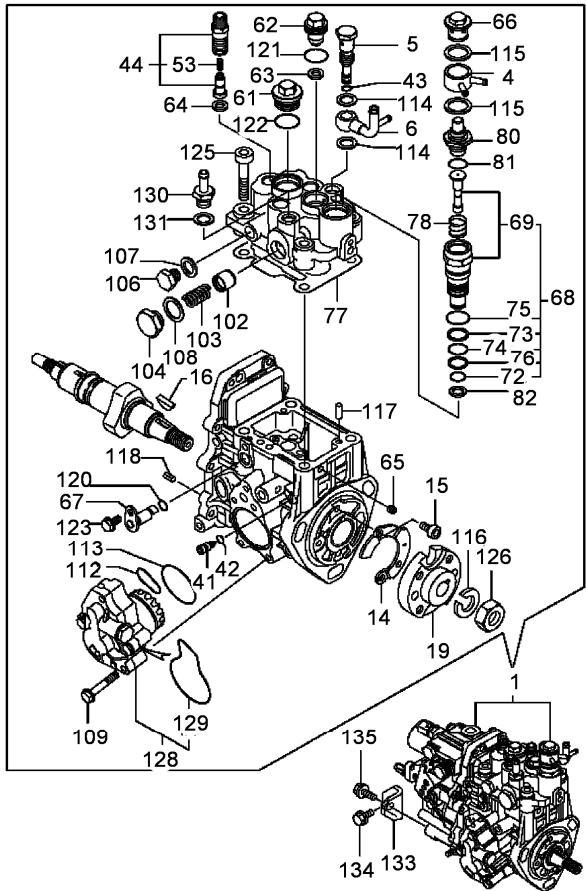
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A0512

Injection pump assy



			Inglese
1	6515256M91		1 Pump
4	4215982M1	!	1 Union
5	4208761M1	!	1 Gasket
6	4215966M1	!	1 Union
14	6510388M1	!	1 Coperch.
15	6510389M1	!	2 Screw
16	4216085M1	!	1 Key
19	3678298M1	!	1 Flange
41	4215971M1	!	1 Valve
42	4215977M1	!	1 Ring
43	4215977M1	!	1 Ring
44	4218163M91	!	3 Shim
53	4215979M1	!	44 Spring
61	4215989M1	!	1 Plug
62	4215990M1	!	1 Plug
63	4218274M1	!	1 Gasket
64	4218274M1	!	3 Gasket
65	4215993M1	!	1 Plug
66	4215995M1	!	1 Plug
67	4215997M1	!	1 Kit
68	4215998M91	!	1 Relay
69	4216011M91	!	68 Relay
	● 4215998M91(1)		
72	4216012M1	!	68 Ring

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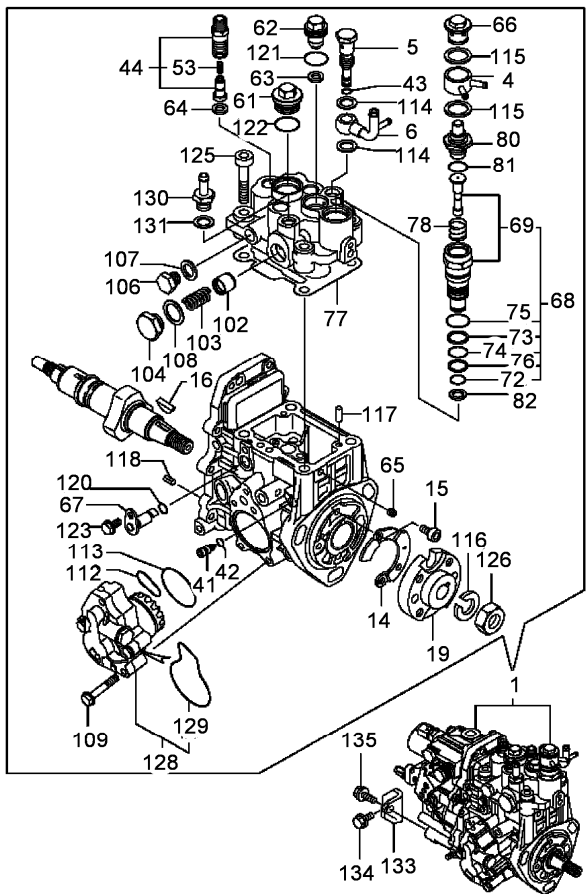
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A0512

Injection pump assy

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73	4216016M1	!	68
74	4216019M1	!	68
75	6510390M1	!	68
76	4216025M1	!	68
77	4216026M1	!	1
78	4216032M1	!	1
80	6515257M1	!	1
81	4208762M1	!	1
82	4208763M1	!	1
102	4216093M1	!	1
103	4216094M1	!	1
104	4216095M1	!	1
106	6510395M1	!	1
107	3653810M1	!	1
108	4208895M1	!	1
109	4216089M1	!	1
112	6510396M1	!	1
113	4216278M1	!	1
114	3653810M1	!	1
115	4208895M1	!	1
116	3678000M1	!	1
117	4216922M1	!	1
118	3653817M1	!	1
120	3665019M1	!	1

Inglese

1	Ring
1	Ring
1	Ring
1	Ring
1	Piston head
1	Spring
1	Element
1	Gasket
1	Gasket
1	Piston
1	Spring
1	Plug
1	Plug
1	Washer
1	Gasket
4	Bolt
1	Ring
1	Ring
2	Washer
2	Gasket
1	Screw
2	Pin
2	Dowel
1	Ring



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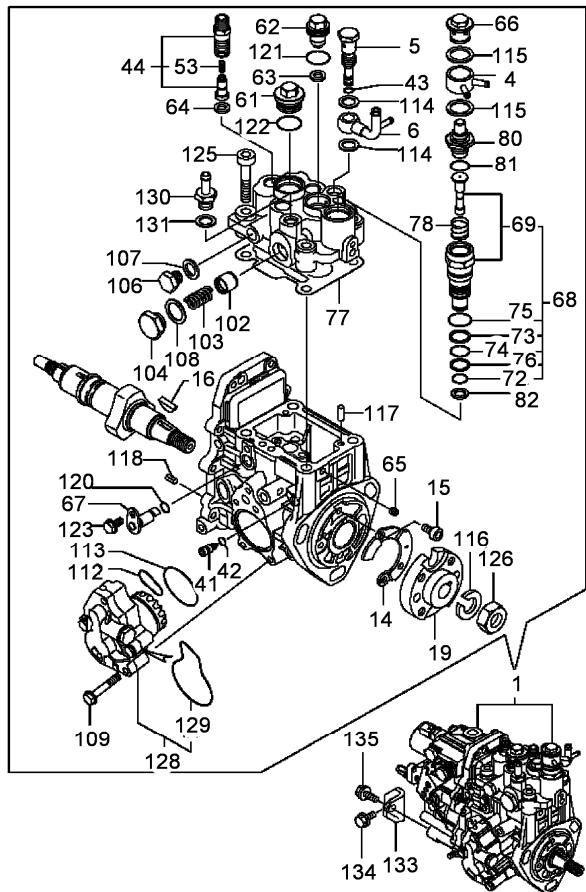
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A0512

Injection pump assy

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Inglese

121	6510393M1	!	1	1 Ring
122	6510394M1	!	1	1 Ring
	●		6510390M1(1)	
123	3653851M1	!	1	1 Bolt
125	4216092M1	!	1	4 Bolt
126	3678315M1	!	1	1 Nut
128	4216078M91	!	1	1 Pump
129	4216079M1	!	128	1 Ring
130	4216098M1	!	1	1 Union
131	3653810M1	!	1	1 Washer
133	3681375M1			1 Stirrup
134	3653858M1			1 Bolt
135	3653859M1			1 Bolt

! This is a component of an assembly

● Replacement

Engine

4600 (2012-) - RS02 - 4645 ISM-VRM-ARM

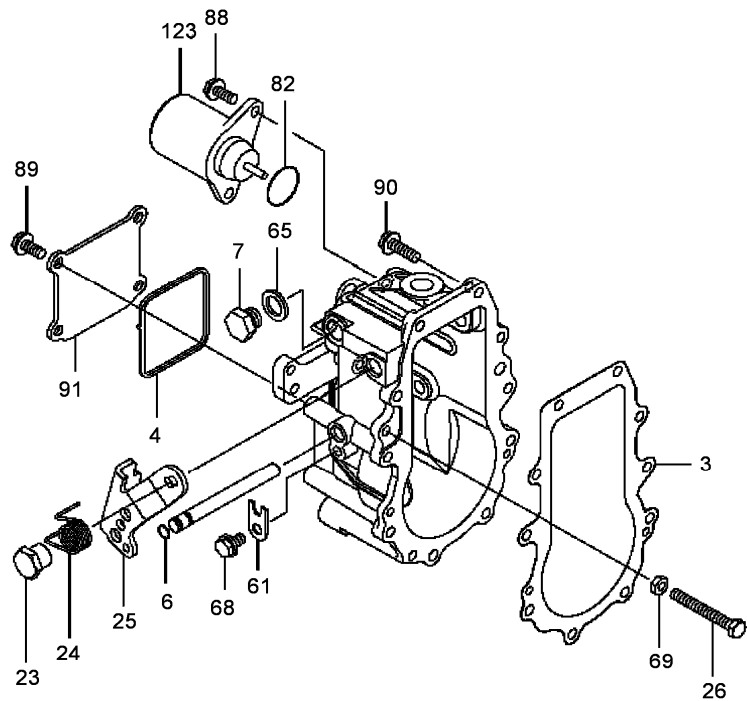
A-05
13



A0513

Fuel cut off

RS02\00042551.png



- 3 4216099M1
- 4 4216283M1
- 6 3653478M1
- 7 6510395M1
- 23 4216101M1
- 24 4216102M1
- 25 4216103M1
- 26 3653725M1
- 61 3653269M1
- 65 3653810M1
- 68 3653851M1
- 69 3653883M1
- 82 4216105M1
- 88 3653852M1
- 89 3653852M1
- 90 3653854M1
- 91 4216107M1
- 123 3653268M1

Inglese

- 1 Gasket
- 1 Gasket
- 1 Ring
- 1 Plug
- 1 Plug
- 1 Spring
- 1 Lever
- 1 Bolt
- 1 Clip
- 1 Washer
- 1 Bolt
- 1 Nut
- 1 Ring
- 2 Screw
- 4 Screw
- 10 Bolt
- 1 Plug
- 1 Solenoid

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