

Engine

Xtx tier 3 (2007-2013) - XTX3 - 165

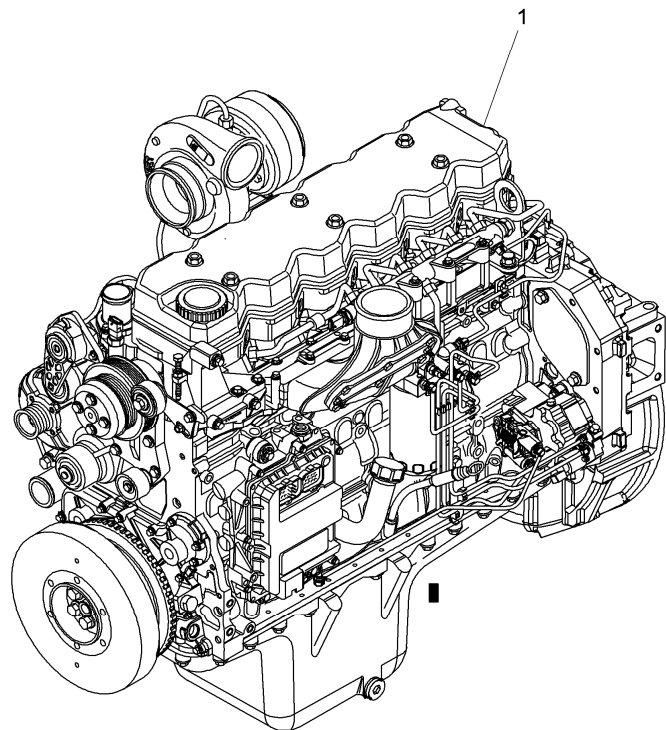
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A-05  
01



A0501

Engine assembly



		Inglese	
1	6507293M91 ➔	N14131 123 kw	1 Engine
1	6511068M91	123 kw	1 Engine
	A		
	B		
	C		
1	713018A1 ➔	N14130 ● 3691576M91(1), 6507293M91(1) 123 kw	1 Engine

- ➔ From serial or engine number
- ➡ Up to serial or engine number
- Replacement
- A Flexibility engine
- B For market "cee"
- C For market "n.a.o."

Engine

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A-05  
015

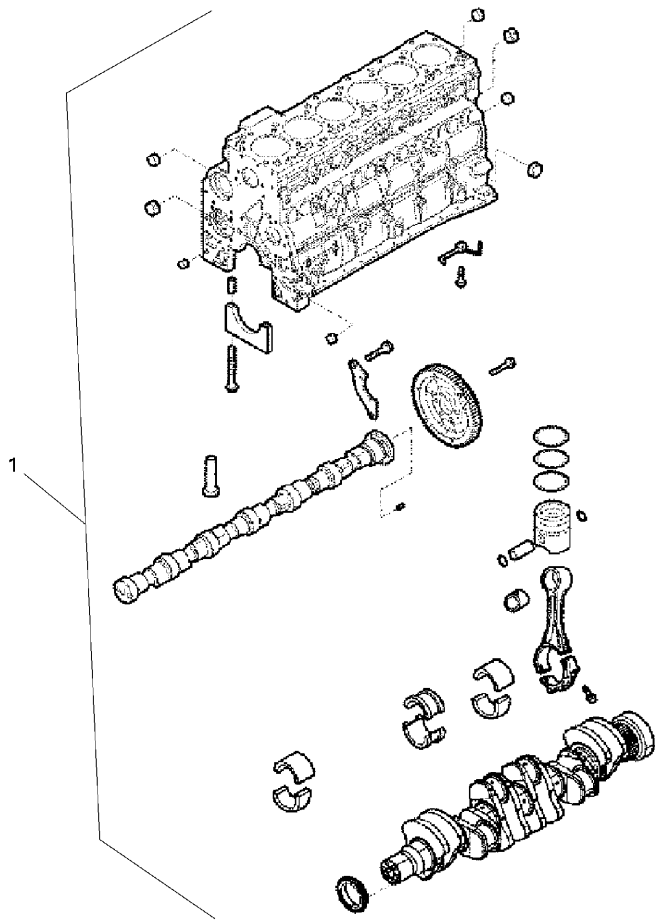


A05015

Short engine

Inglese

- 1 6501960M91 ● 6518645M91(1) 1 Short engine
- Replacement



Engine

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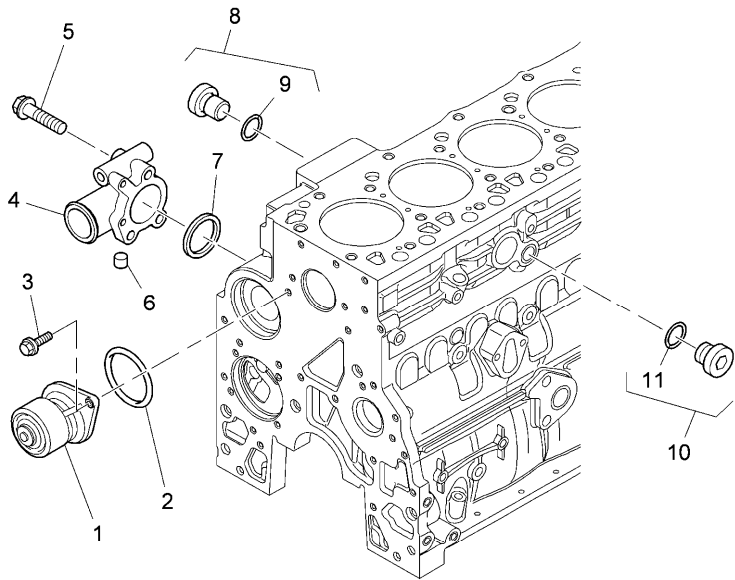
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A-05  
02



A0502

Water pump



		Inglese
1	710239A1	1 Pump assy
2	707445A1	1 Seal
3	704984A1	2 Bolt
		● 3688856M1(1)
4	705259A1	1 Elbow assy
5	704801A1	3 Bolt
		● 3688774M2(1)
6	704784A1	1 Plug
7	707367A1	2 Seal
8	704850A1	1 Plug
9	707405A1	1 O-ring
		! 8
10	704578A1	1 Plug
11	704555A1	1 Washer
		! 10
! This is a component of an assembly		
◄ Length		
● Replacement		

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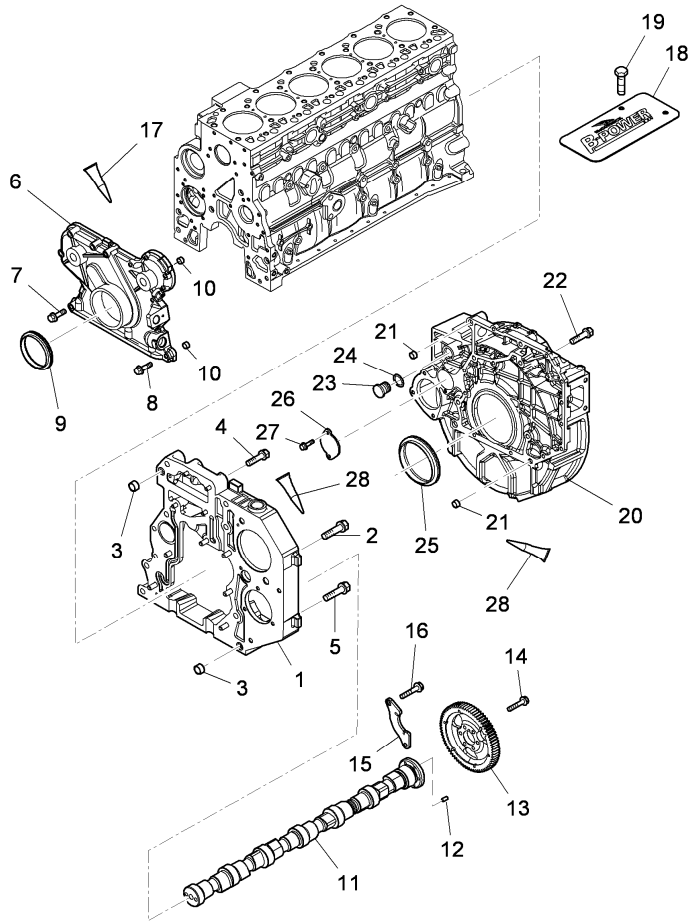
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A-05  
03



A0503

Cylinder block cover - camshaft



		Inglese
1	705053A1	1 Housing
2	704999A1	1 Bolt
2	705015A1	2 Bolt
3	704983A1	2 Dowel
4	705003A1	4 Bolt
5	704910A1	3 Bolt
6	704913A1	A
7	705003A1	5 Bolt
8	704995A1	8 Bolt
9	704686A1	1 Seal
10	704693A1	2 Dowel
11	714686A1	1 Camshaft
12	705005A1	1 Dowel
13	704887A1	1 Gear
14	705004A1	6 Bolt
15	704931A1	1 Yoke
16	704997A1	2 Bolt
17	TBA	3 Loctite
18	707729A1	1 Note plate
19	555-1	2 Bolt
20	705098A1	C
21	704983A1	2 Dowel
22	705002A1	6 Bolt
22	705020A1	2 Bolt

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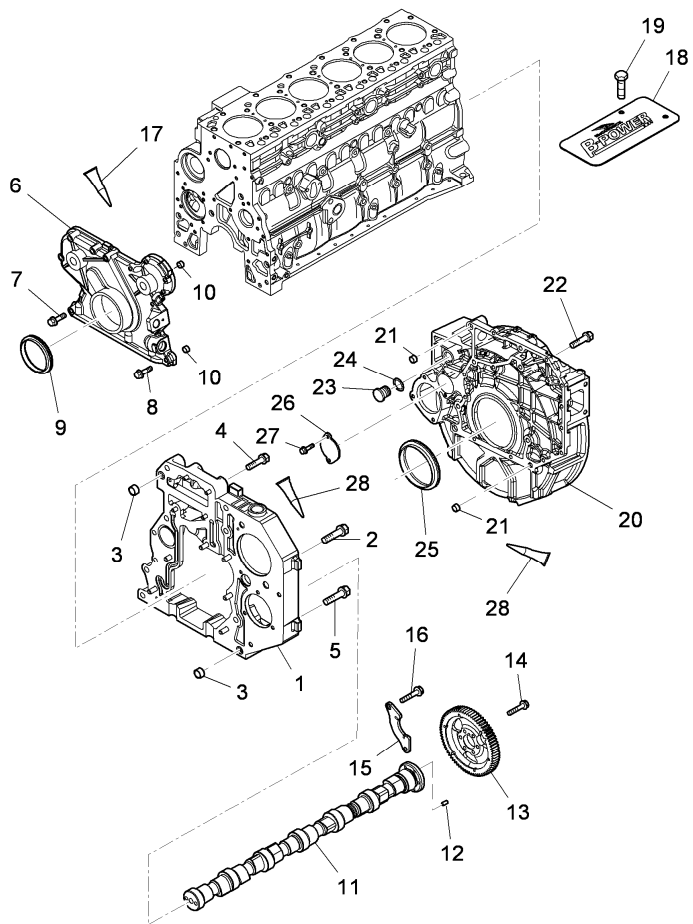
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A-05  
03



A0503

Cylinder block cover - camshaft



Inglese

22	712165A1	◄►	M10 x 40 mm	8	Bolt
22	712166A1	●	4219091M1(0)	0	Bolt
23	704847A1			1	Plug
24	714949A1			1	O-ring
25	704687A1	●	6514306M1(1)	1	Seal
26	704799A1			1	Cover
27	704997A1	◄►	M8 x 17 mm	2	Bolt

- ◄► Length
- Replacement
- A Front
- C Flywheel

Engine

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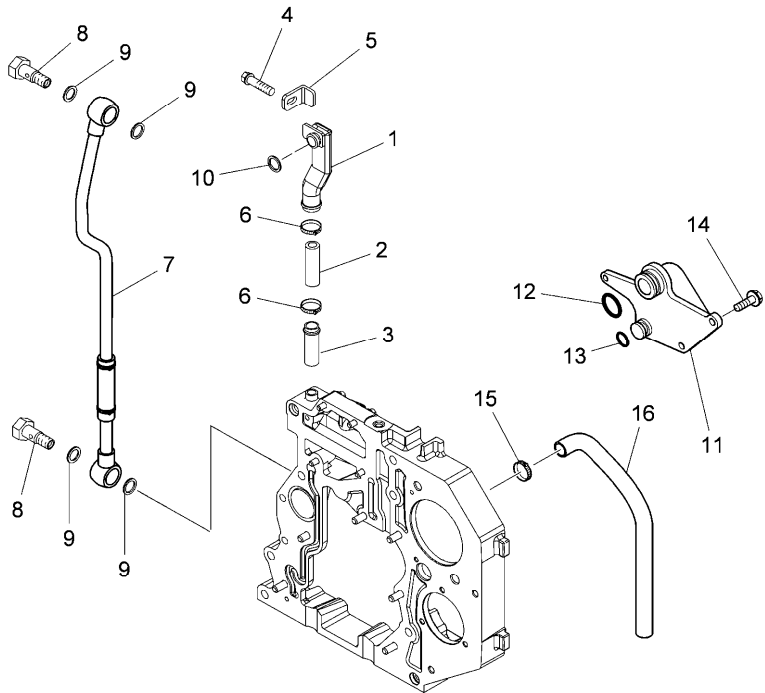
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A-05  
04



A0504

Vent and airing



- 1 704935A1
  - 2 704939A1
  - 3 704940A1
  - 4 704937A1
  - 5 704936A1
  - 6 704728A1
  - 7 705029A1
  - 8 707341A1
  - 9 705062A1 ! 7
  - 10 704962A1 ! 7
  - 3688996M1(1)
  - 11 714673A1
  - 12 714672A1
  - 13 704960A1
  - 14 705021A1
  - 15 3551942M1
  - 16 714463A1 ◀▶ 760 mm
- ! This is a component of an assembly  
 ▶ Length  
 ● Replacement

Inglese

- 1 Pipe
- 1 Tube
- 1 Connector
- 1 Bolt
- 1 Retainer
- 2 Clip
- 1 Tube assy
- 2 Bolt, banjo
- 4 Seal
- 1 Seal
- 1 Breather
- 1 O-ring
- 1 Seal
- 3 Bolt
- 1 Clamp
- 1 Hose

Engine

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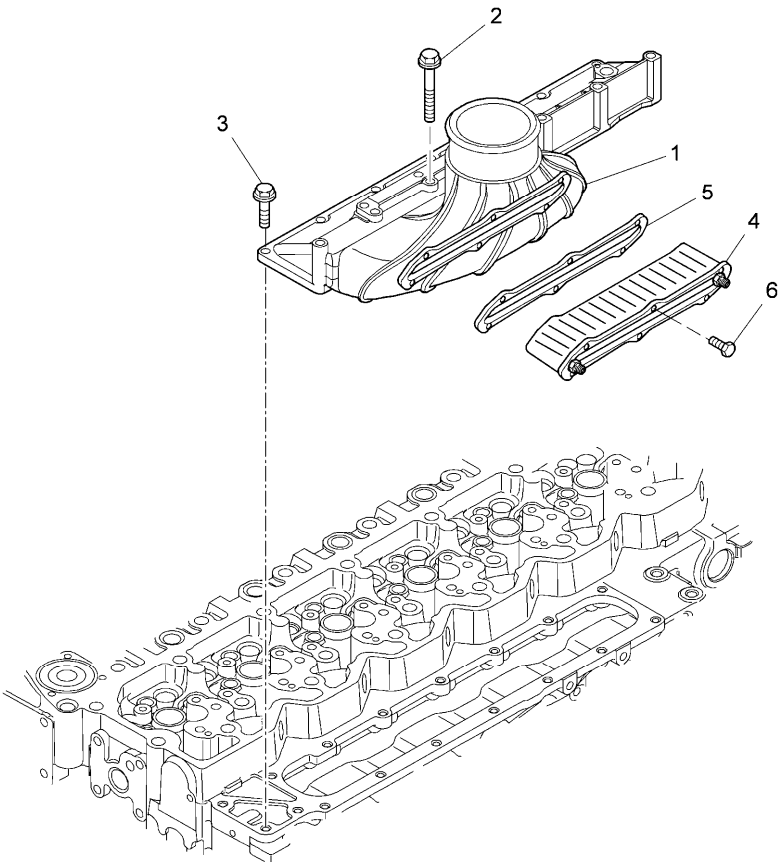
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A-05  
05



A0505

Manifolds - intake



- |   |          |   |               |   |                  |
|---|----------|---|---------------|---|------------------|
| 1 | 714677A1 | ● | 4218278M91(1) | 1 | Manifold         |
| 2 | 714676A1 |   |               | 2 | Bolt             |
| 3 | 704990A1 | ◄ | M8 x 25 mm    | 8 | Bolt             |
| 4 | 714680A1 |   |               | 1 | Heater           |
| 5 | 714679A1 | ● | 3689096M1(1)  | 1 | Gasket, manifold |
| 6 | 714678A1 |   |               | 6 | Bolt             |
- ◄ Length  
● Replacement

Inglese

Engine

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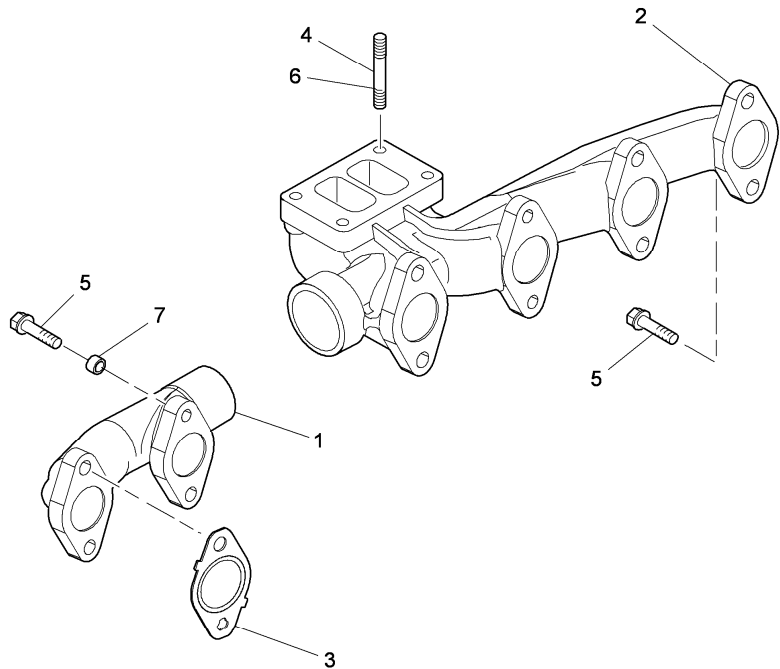
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A-05  
06



A0506

Manifold - exhaust



- |   |          |   |               |         |    |                  |
|---|----------|---|---------------|---------|----|------------------|
| 1 | 704658A1 |   |               | Inglese | 1  | Manifold         |
| 2 | 710628A1 | ● | 3689068M1(1)  |         | 1  | Manifold         |
| 3 | 707350A1 | ● | 3689062M1(1)  |         | 6  | Gasket, manifold |
| 4 | 705008A1 |   |               |         | 3  | Stud             |
| 5 | 715346A1 | ● | 3689072M1(12) |         | 12 | Bolt             |
| 6 | 714682A1 | ◄ | M10 x 35 mm   |         | 1  | Stud             |
|   |          | ● | 3688946M1(1)  |         |    |                  |

- ◄ Length
- Replacement

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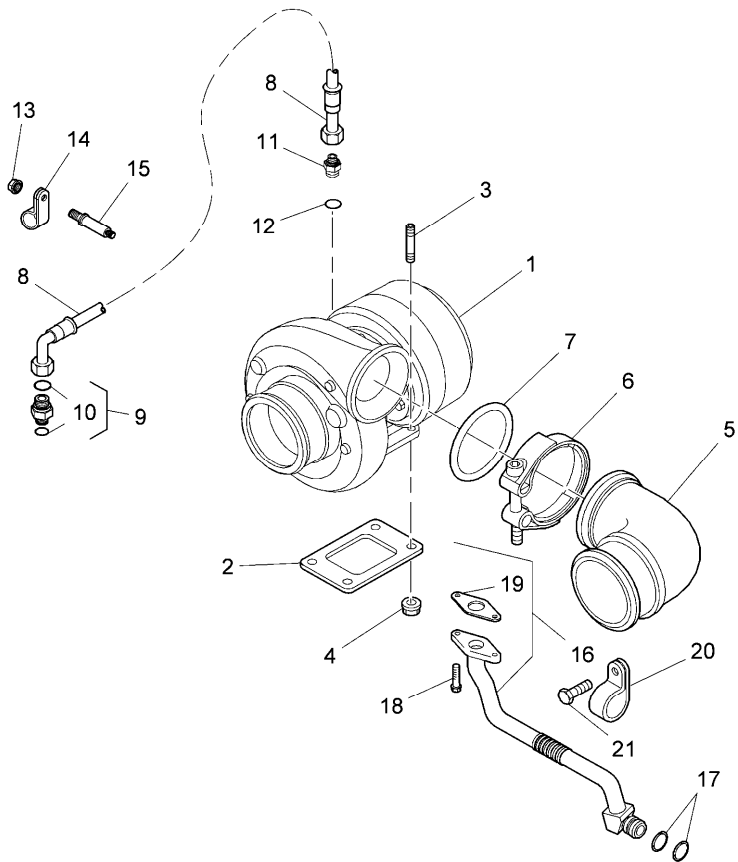
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A-05  
07



A0507

Supercharging system



		Inglese		
1	714716A1	●	3689063M1(1)	1 Turbocharger assy
2	704792A1	●	3688770M1(1)	1 Gasket, manifold
3	705008A1			4 Stud
4	705009A1	●	3688862M1(4)	4 Nut
5	711443A1			1 Elbow
6	3684506M91			1 Collar
7	705010A1			1 O-ring
8	711759A1	●	3689065M1(1)	1 Pipe
9	704793A1			1 Connector
10	707420A1	!	9	1 O-ring
10	707421A1	!	9	1 O-ring
11	TBA			1 Connector
12	TBA			1 O-ring
13	708557A1	●	3688948M1(1)	1 Nut
14	706304A1			1 Clip
15	706318A1	●	3689104M1(1)	1 Screw assy
16	707397A1			1 Pipe
17	706307A1	●	3688995M1(2)	2 O-ring
18	704984A1	◄	M8 x 25 mm	2 Bolt
19	707389A1	!	16	1 Gasket, housing
		●	3688856M1(1)	
		●	36888672M1(1)	
20	704905A1			1 Clip
21	707366A1	◄	M12 x 25 mm	1 Bolt

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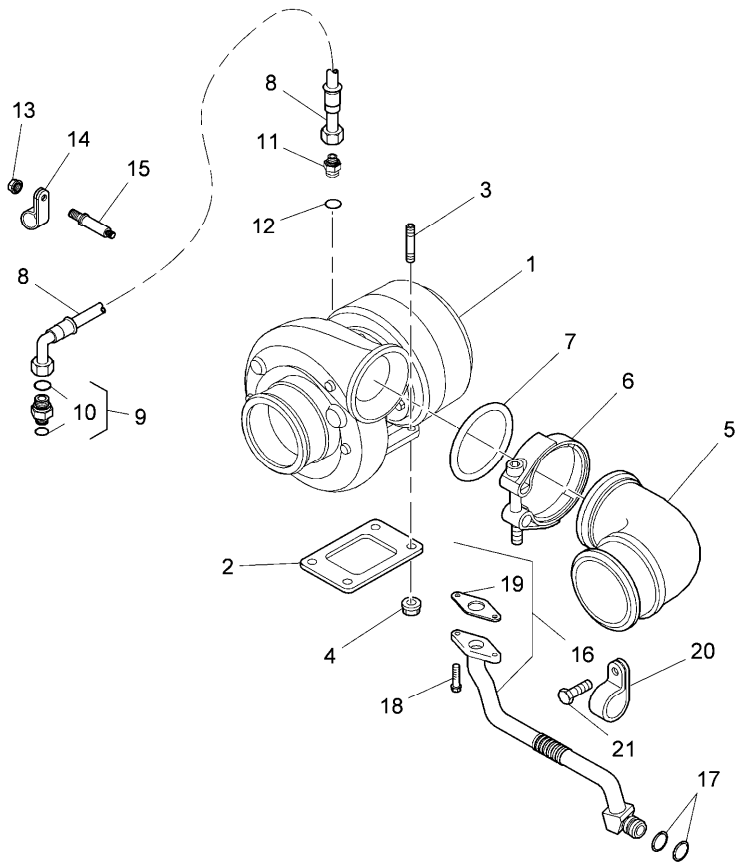
A-05  
07



A0507

Supercharging system

- ! This is a component of an assembly
- ◄ Length
- Replacement



Engine

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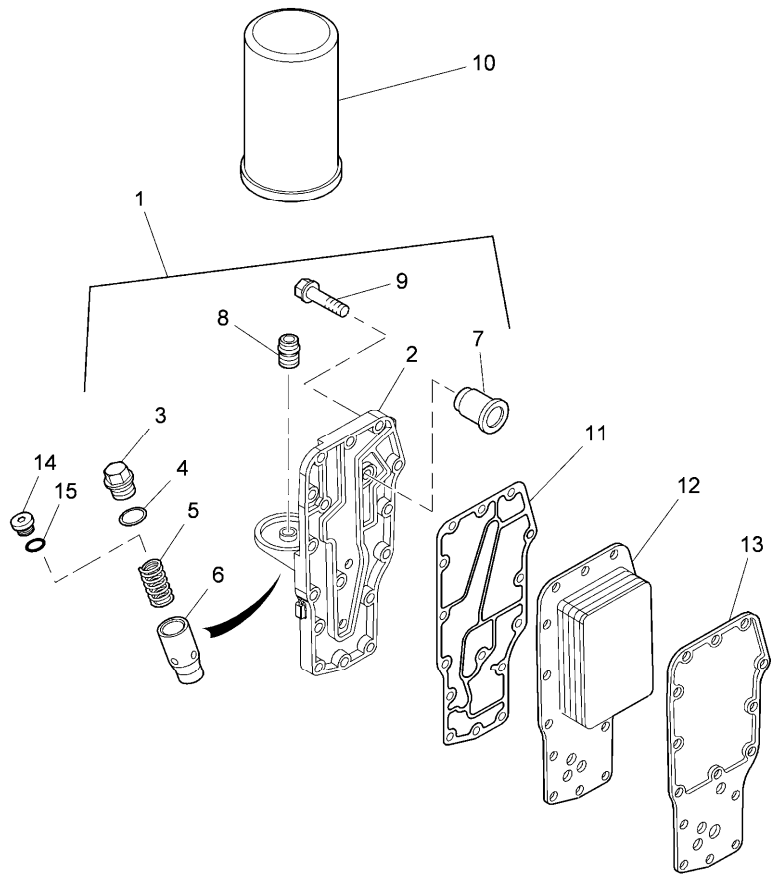
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A-05  
08



A0508

Oil filter and cooler



		Inglese	
1	705234A1	● 704769A1(1), 704888A1(1), 704890A1(1), 704986A1(1), 705236A1(1), 708989A1(1)	1 Housing assy
2	705236A1	! 1	1 Housing
3	704768A1	! 1 ● 708989A1(1)	1 Plug
4	704986A1	! 1	1 O-ring
5	704769A1	! 1	1 Spring
6	704888A1	! 1	1 Body
7	704890A1	! 1	1 Valve, regulator
8	704732A1	! 1	1 Connector
9	704981A1	! 1 ◄ M8 x35 mm	10 Bolt
10	707209A1		1 Filter
11	714088A1	● 3688627M1(1)	1 Gasket, cover
12	704889A1	● 6531118M91(1)	1 Core
13	707373A1	● 3688612M1(1)	1 Gasket, housing
14	708989A1		1 Plug
15	714089A1	● 4218635M1(1)	1 O-ring
16	704569A1	◄ M8 x 100 mm A	2 Bolt
17	704991A1	A	3 Bolt
!	This is a component of an assembly		
◄	Length		

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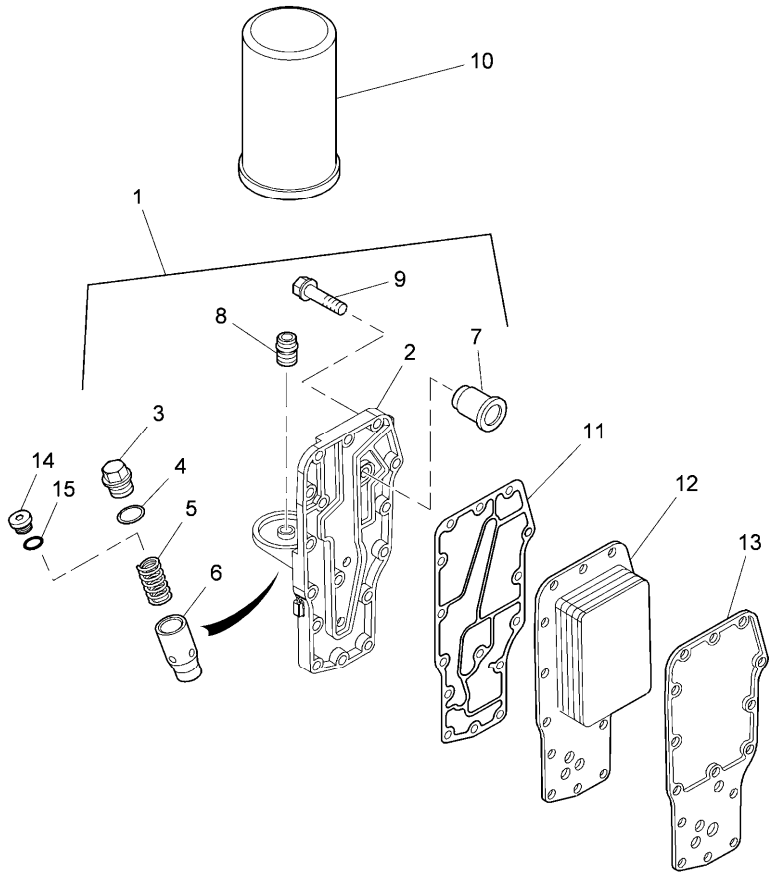
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08



A0508

Oil filter and cooler

- Replacement
- A Not illustrated



Engine

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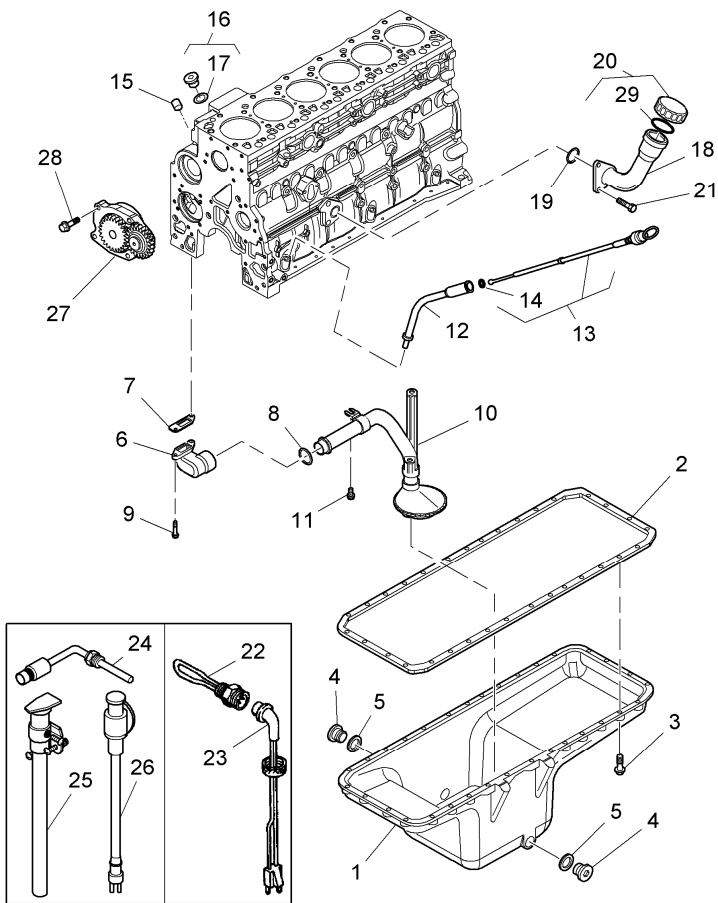
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A-05  
09



A0509

Lubricating oil pump and delivery housing



- 1 705252A1
- 2 705082A1
- 3 706309A1
- 4 707395A1
- 5 707407A1
- 6 705185A1
- 7 704957A1
- 8 704589A1
- 9 710626A1
- 10 705298A1
- 11 704827A1
- 12 709603A1
- 13 712176A1
- 14 704965A1
- 15 704987A1
- 16 704930A1
- 17 704869A1
- 18 712175A1
- 19 707431A1
- 20 705344A1
- 21 707366A1
- 22 J904380
- 23 J905113

- ◄ M8 x 30 mm
- 3688691M1(1)
- 3688997M1(1)
- ◄ M8 x 25 mm
- ! 13
- 709602A1(1)
- ! 13
- ! 16
- ◄ M12 x 25 mm
- A
- ◄ 1829 mm
- A

Inglese

- 1 Pan, oil
- 1 Gasket, pan
- 32 Bolt
- 2 Plug
- 2 O-ring
- 1 Elbow
- 1 Gasket, pipe
- 1 O-ring
- 2 Bolt
- 1 Strainer
- 1 Bolt
- 1 Pipe
- 1 Dipstick
- 1 O-ring
- 3 Plug
- 2 Plug
- 1 O-ring
- 1 Filler
- 1 O-ring
- 1 Cap
- 2 Bolt
- 1 Heater
- 1 Cable

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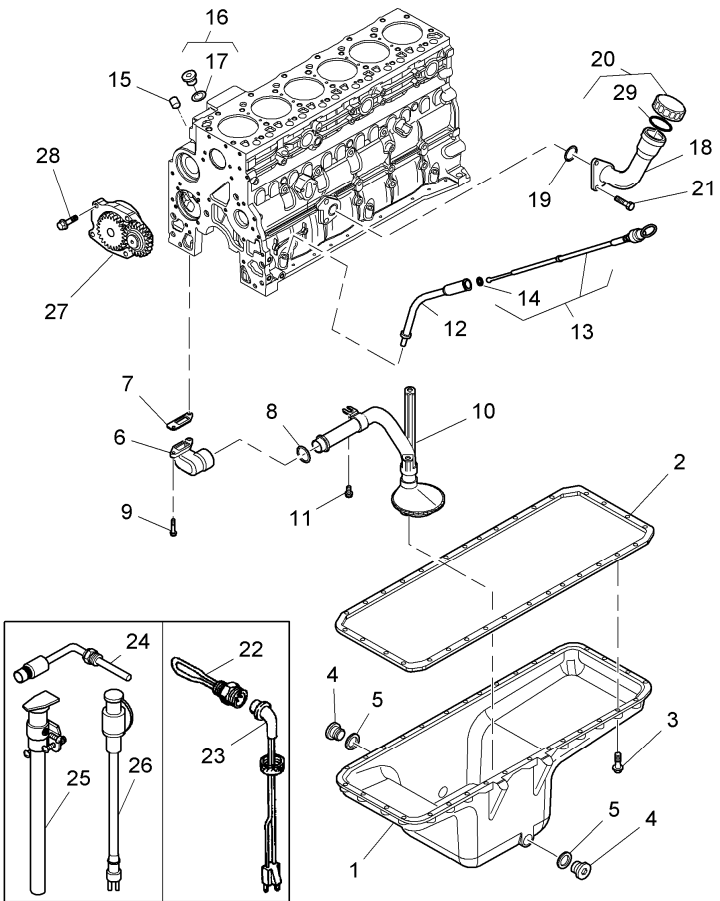
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A-05  
09



A0509

Lubricating oil pump and delivery housing



24	706391A1	B	
25	314722A1	B	
26	314723A1	B	
27	704933A1	●	6501709M1(1)
28	705012A1		
29	713806A1	!	20

Inglese

1	Heater
1	Harness
1	Cable
1	Pump
4	Bolt
1	O-ring

- ! This is a component of an assembly
- ◄ Length
- Replacement
- A For market "n.a.o."
- B Excluded "n.a.o." market

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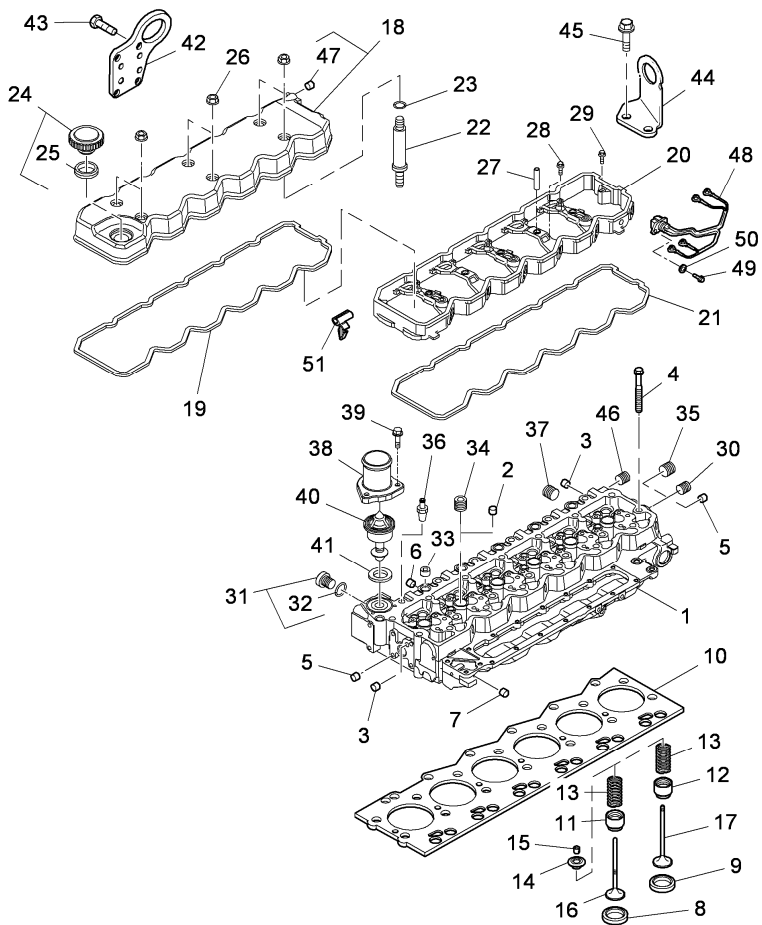
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A-05  
10



A0510

Cylinder head - valve mechanism



		Inglese	
1	709608A1	●	3688621M1(1) 1 Head assy
2	704790A1	!	1 11 Plug
3	704853A1	!	1 7 Plug
4	704691A1	◄►	M12 x 130 mm 12 Bolt
4	704692A1	◄►	M12 x 150 mm 14 Bolt
5	704789A1	●	3688651M1(12) 13 Plug
6	704855A1	!	1 3688652M1(14) 2 Plug
7	704854A1	!	1 3688768M1(13) 2 Plug
8	704729A1	●	3688794M1(2) 12 Insert
9	704729A1	!	1 N.L.S.(1) 12 Insert
10	707376A1	●	N.L.S.(1) 1 Gasket, cyl. head
11	704665A1	●	3688616M1(1) 12 Cap
12	704665A1	●	3688622M1(12) 12 Cap
13	704781A1	●	3688622M1(12) 24 Spring
14	704782A1	●	3688765M1(24) 24 Cap
15	705006A1	●	3688766M1(24) 48 Cone assy
16	704771A1	●	3688858M1(48) 12 Valve, exhaust
17	704772A1	●	3688761M1(12) 12 Valve, intake
18	704881A1	●	3688762M1(12) 1 Cover assy

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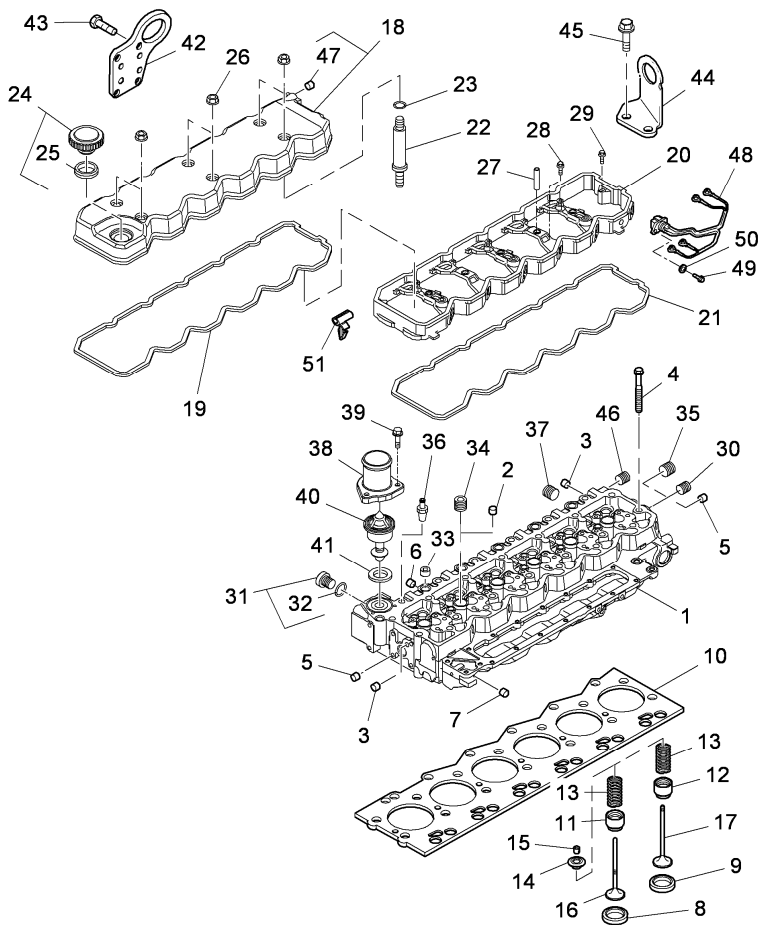
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A-05  
10



A0510

Cylinder head - valve mechanism



		Inglese
19	715006A1	● 3689038M1(1) 1 Gasket, cover
20	705040A1	● 3688872M1(1) 1 Spacer
21	707423A1	● 3689039M1(1) 1 Gasket, cover
22	714674A1	● 3689104M1(6) 6 Screw assy
23	707424A1	● 3689040M1(6), 3689057M1(42) 6 Washer
24	705346A1	● 3689018M1(1) 1 Cap
25	705341A1	! 24 1 Seal
		● 3689016M1(1)
		● 3689057M1(6) 6 Nut
26	715008A1	5 Bushing
27	705039A1	5 Bolt
28	704858A1	5 Bolt
29	705011A1	2 Bolt
30	704785A1	1 Plug
31	704786A1	1 Plug
32	707398A1	! 31 1 O-ring
33	704870A1	1 Plug
34	704784A1	4 Plug
35	704785A1	1 Plug
36	704795A1	1 Insert
37	704714A1	1 Plug
38	704797A1	● 6525653M1(3), 6525654M1(1) 1 Housing
39	705021A1	3 Bolt
40	707439A1	● 4215605M2(1) 1 Valve
41	707438A1	● 3689023M1(1) 1 Gasket

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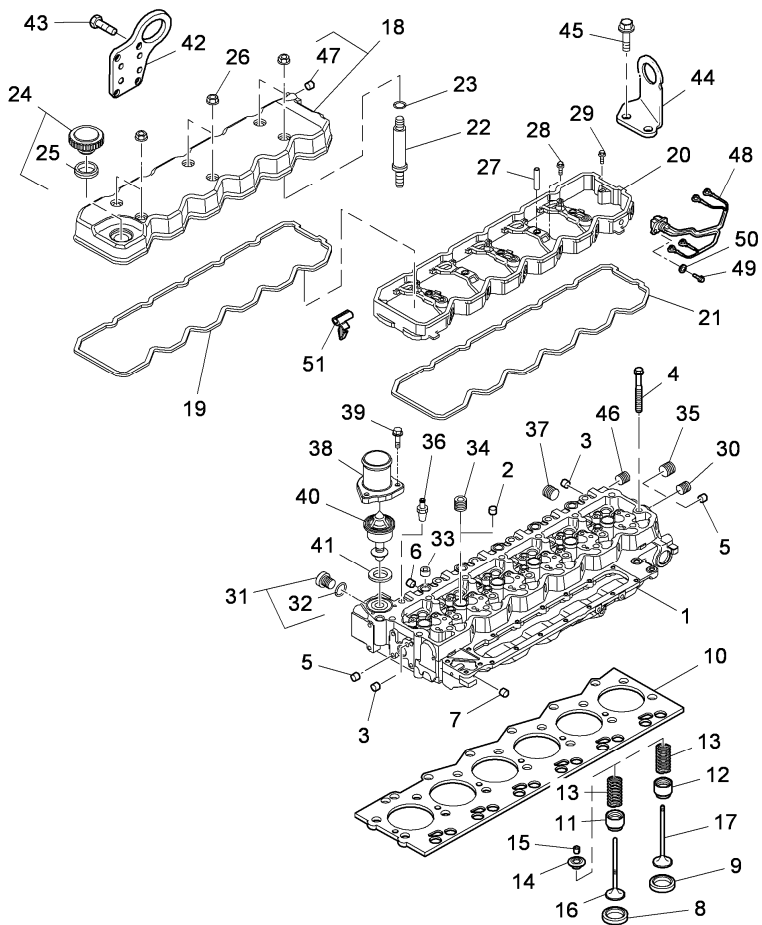
**A-05**  
**10**



A0510

Cylinder head - valve mechanism

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- 42 704747A1
  - 43 705004A1
  - 44 714717A1
  - 45 704988A1   ● 707366A1(1)
  - 46 704723A1
  - 47 704956A1   ! 18
  - 48 3689025M1
  - 49 3688945M1   ● 704572A1(3)
  - 50 3688950M1   ● 707347A1(3)
  - 51 3689037M1   ● 705197A1(6)
- ! This is a component of an assembly  
 ◄ Length  
 ● Replacement

**Inglese**

- 1 Hook
- 4 Bolt
- 1 Hook
- 2 Bolt
- 1 Plug
- 1 Plug
- 3 Cable
- 3 Screw
- 3 Lock washer
- 6 Spring

Engine

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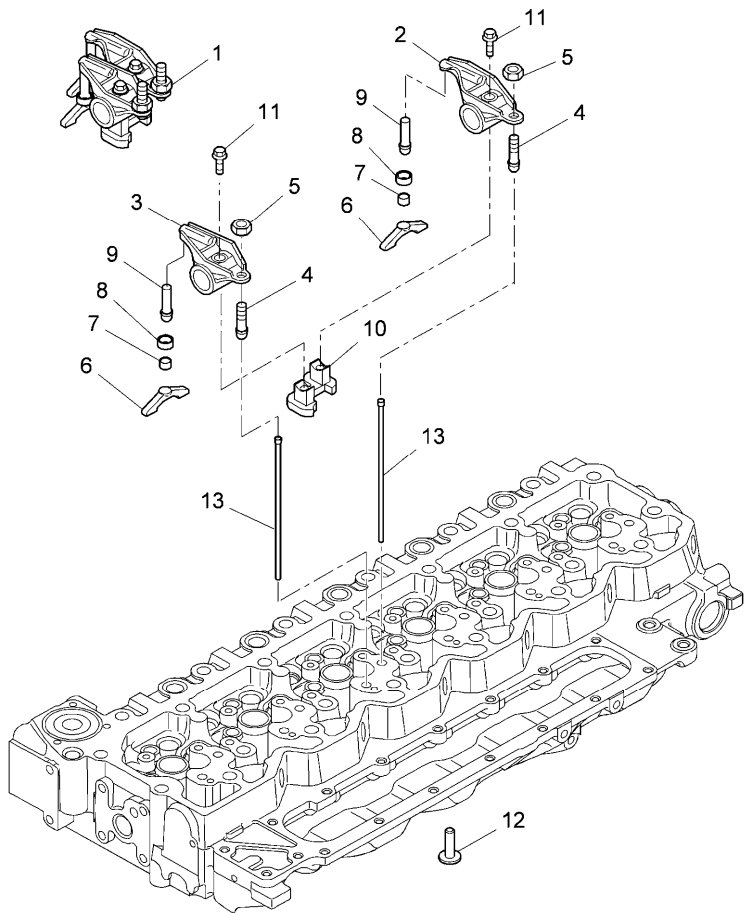
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**A-05**  
**11**



A0511

Cylinder head - valve mechanism



		Inglese	
1	704972A1		6 Rockshaft
2	704780A1	! 1	1 Lever assy
		● 6513402M91(1)	
		A	
3	704779A1	! 1	1 Lever assy
		● 6513405M91(1)	
		B	
4	704610A1	! 1	2 Screw
5	704812A1	! 1	1 Nut
6	714675A1	! 1	12 Lever
7	704925A1	! 1	2 Cap
		● 6513401M1(2)	
8	704928A1	! 1	2 Cap
		● 6513400M1(2)	
9	704778A1	! 1	2 Pin assy
10	704735A1	! 1	1 Bracket
11	704622A1		12 Bolt
12	705056A1		12 Tappet
13	704763A1		12 Rod, push
!	This is a component of an assembly		
●	Replacement		
A	Exhaust		
B	Inlet		

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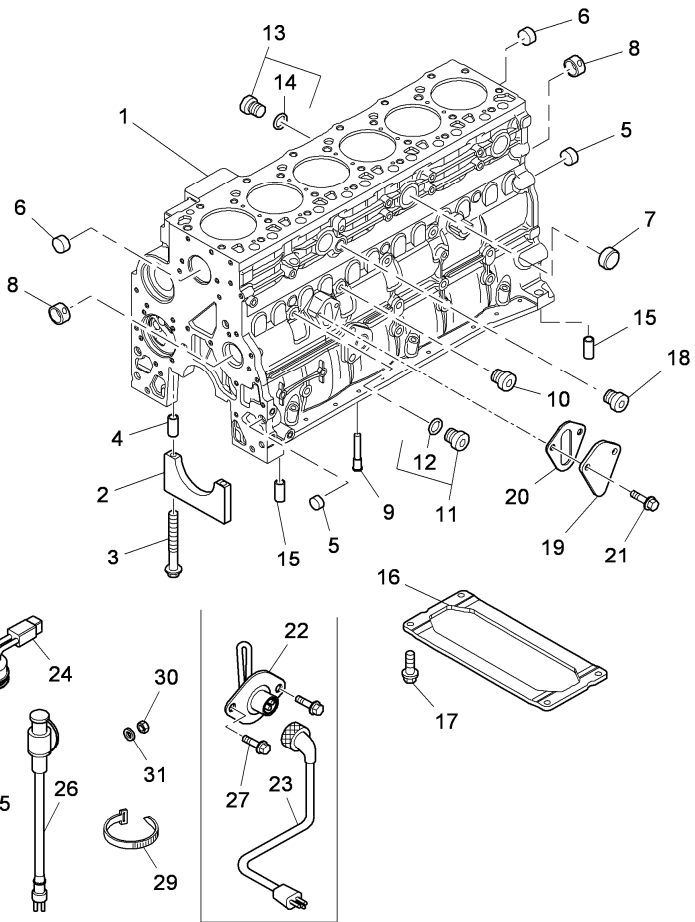
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A0512

Cylinder block



Inglese

1	713176A1	●	N.L.S.(1)	1	Block assy
2	NSS	!	1	1	Cap
3	704696A1	◄	M12 x 120 mm	14	Bolt
		!	1		
4	704983A1	!	1	14	Dowel
5	704765A1	!	1	2	Plug
6	704764A1	!	1	6	Plug
7	704823A1	!	1	3	Plug
8	704766A1	!	1	2	Bearing, needle
		●	3688759M1(2)		
9	704885A1			6	Plug
10	704866A1			2	Plug
11	704980A1			2	Plug
12	707419A1	!	11	1	O-ring
13	704850A1	●	704848A1(1)	2	Plug
14	707405A1	!	13	1	O-ring
15	704770A1	●	3688760M1(2)	2	Dowel
16	705218A1			1	Plate
17	704985A1	◄	M10 x 25 mm	4	Bolt
18	704870A1			1	Plug
19	704911A1			1	Cover
20	704684A1			1	Gasket, cover
21	710625A1	◄	M8 x 20 mm	2	Bolt
22	706388A1	A		1	Heater

C

Engine

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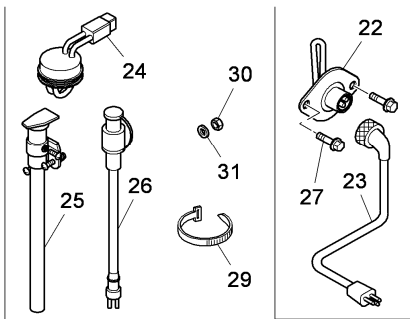
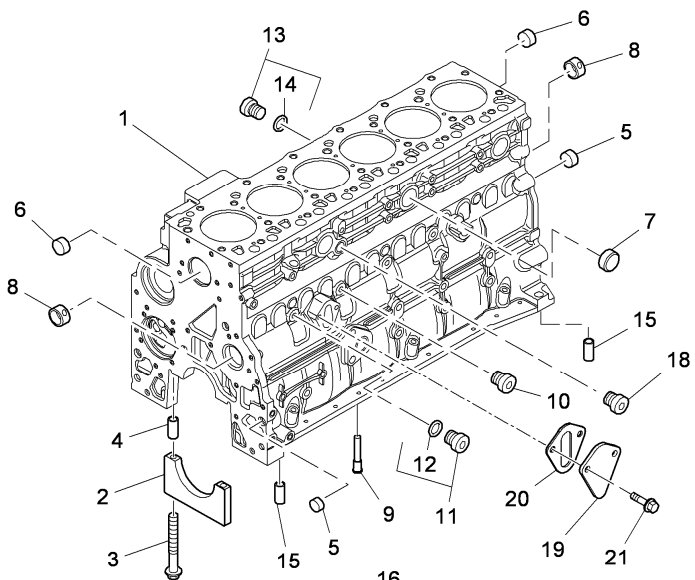
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A0512

Cylinder block

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		Inglese
23	J905113	1829 mm
	◆	1 Cable
	A	
24	706389A1	
	B	1 Heater
	C	
25	314722A1	
	B	1 Harness
26	314723A1	
	B	1 Cable
27	3009193X1	M8x20
	◆	2 Screw
	A	
28	713174A1	
		6 Nozzle
29	289862C1	
	B	3 Clamp
30	390995X1	
	B	1 Nut
31	893-16005	
	B	2 Washer
! This is a component of an assembly		
◆ Length		
● Replacement		
A For market "n.a.o."		
B Excluded "n.a.o." market		
C Water		

Engine

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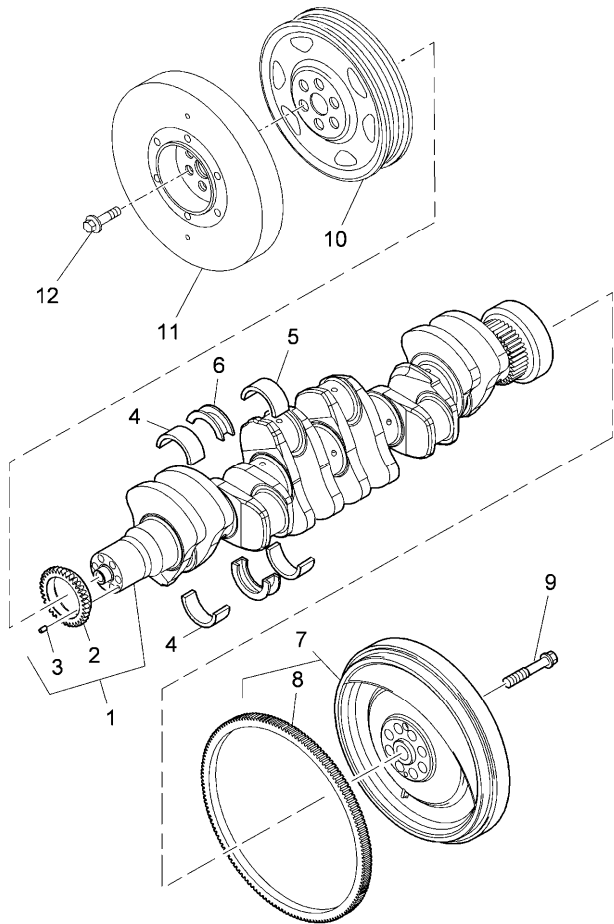
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A-05  
13



A0513

Crankshaft



		Inglese	
1	705157A1	● 705157A2(1)	1 Crankshaft assy
2	704730A1	! 1	1 Gear
3	704992A1	! 1	1 Dowel
4	706288A1	● 3688880M1(6) Di serie	6 Bearing, con. rod
4	715347A1	-0,25	6 Bearing, con. rod
4	715348A1	-0.5	6 Bearing, con. rod
5	714683A1	● 3688637M1(6) Di serie	6 Bearing, crankshaft
5	714684A1	● 3688638M1(6) -0.25 Minorazione 0.25 m	6 Bearing, crankshaft
5	714685A1	-0.5 Minorazione 0.5 m	6 Bearing, crankshaft
6	714098A1	-0.5 Minorazione 0.5 m	1 Bearing, thrust
6	714099A1	● 3688634M1(1) Di serie	1 Bearing, thrust
6	714100A1	● 3688635M1(1) -0.25 Minorazione 0.25 m	1 Bearing, thrust
7	705228A1		1 Flywheel
8	705069A1	! 7 ● N.L.S.(1)	1 Gear
9	704752A1		8 Bolt
10	704899A1		1 Pulley

Engine

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A0513

Crankshaft

Inglese

11 704720A1

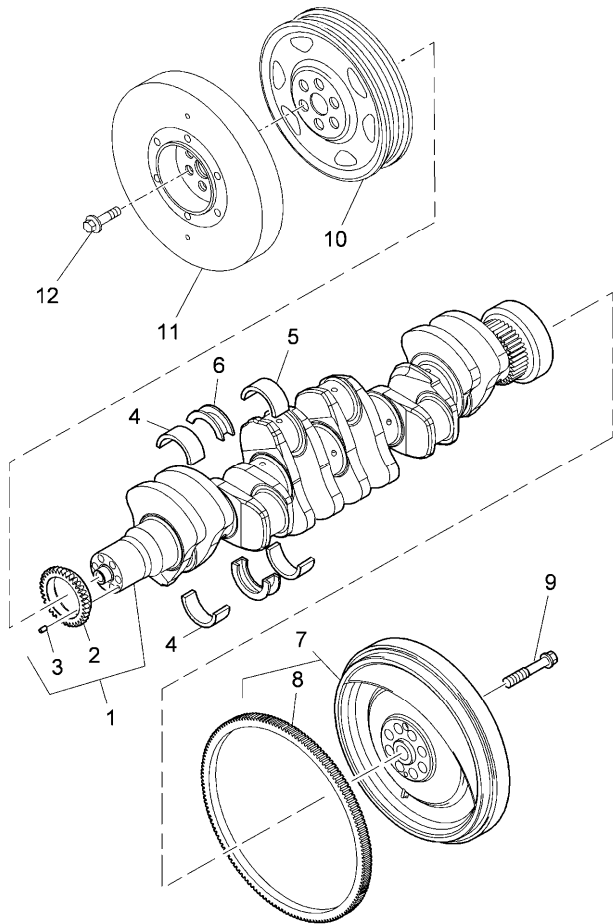
1 Damper

12 704718A1

6 Screw

! This is a component of an assembly

● Replacement





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Engine

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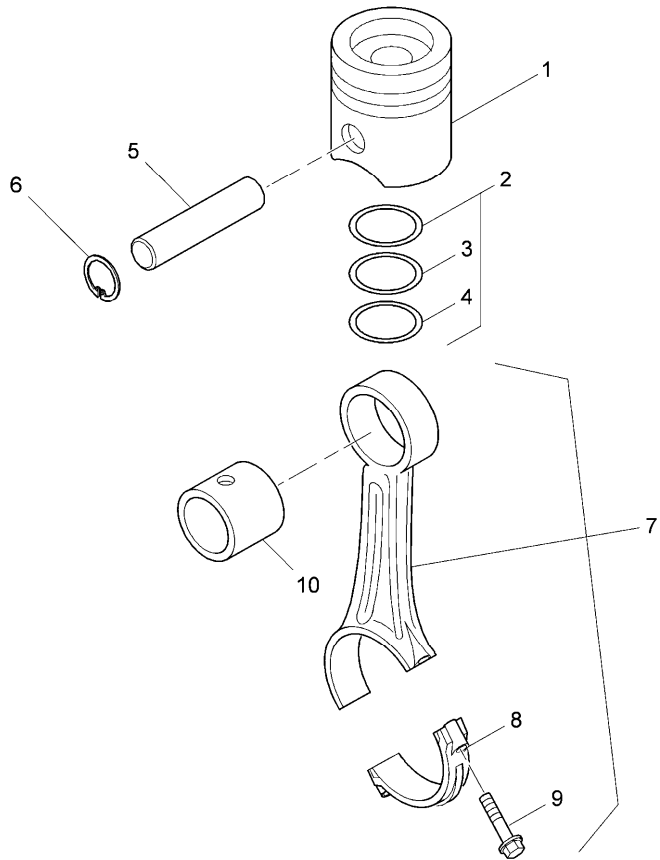
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A0514

Pistons and connecting rods



		Inglese	
1	707353A1	● 3688927M1(1) Di serie	6 Piston assy
1	707355A1	● 3688928M1(1) +0.4 Maggiorazione 0.4	6 Piston assy
2	706290A1	! 1 (707353a1) ● 3688921M1(1) Di serie	1 Package, rings
2	707354A1	! 1 (707355a1) ● 713981A1(1) +0.4 Maggiorazione +0.	1 Package, rings
3	NSS	! 2	1 Ring
4	NSS	! 2	1 Ring
5	704709A1	! 1	1 Pin
6	714082A1	● 3688676M1(1) ! 1	2 Ring, retaining
7	710624A1	● 3689087M1(2) ● 3688624M1(6)	6 Rod assy, connecting
8	NSS	! 7	1 Cap
9	710623A1	! 7 ● 3688623M1(2)	2 Screw
10	704708A1	! 7 ● 3688675M1(1)	1 Bush, bronze

! This is a component of an assembly  
● Replacement

Engine

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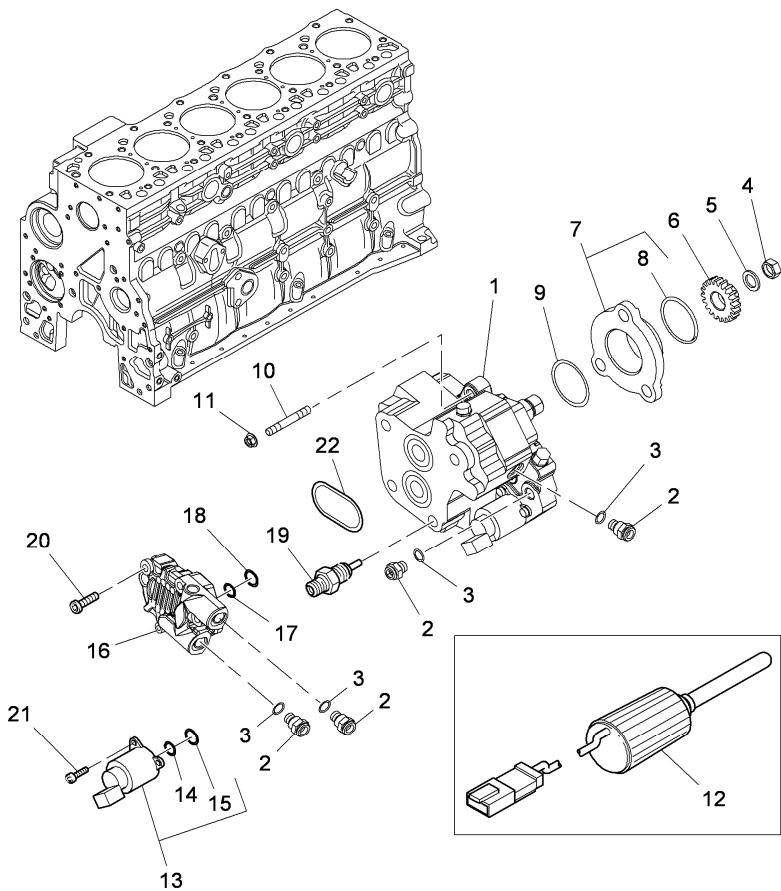
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A0515

Injection pump Assy



		Inglese	
1	704975A1	●	704975A2(1)
2	704740A1	!	1
		●	6501374M1(4)
3	707358A1	!	1
4	704682A1	!	1
5	707359A1	!	1
6	704731A1		1
7	705116A1		1
8	704591A1	!	7
9	712168A1	●	3689012M1(1)
10	704575A1	◄	M8 x 50 mm
11	708557A1	●	3688948M1(3)
12	705964A1	A	1
13	712169A1	●	3689009M1(1)
14	712170A1	!	13
15	712171A1	!	13
16	713800A1	●	3689010M2(1)
17	713801A1		1
18	713802A1		1
19	3689129M1		1
20	714705A1		4
21	714706A1	●	42556819(1)

1 Injector Assy  
4 Connector  
4 Seal  
1 Nut  
1 Washer  
1 Gear  
1 Spacer Assy  
1 O-ring  
1 O-ring  
3 Stud  
3 Nut  
1 Heater  
1 Regulator  
1 O-ring  
1 O-ring  
1 Pump  
1 O-ring  
1 O-ring  
1 Valve  
4 Bolt  
3 Bolt

! This is a component of an assembly  
◄ Length  
● Replacement

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