

Engine

Xtx tier 3 (2007-2013) - XTX3 - 145

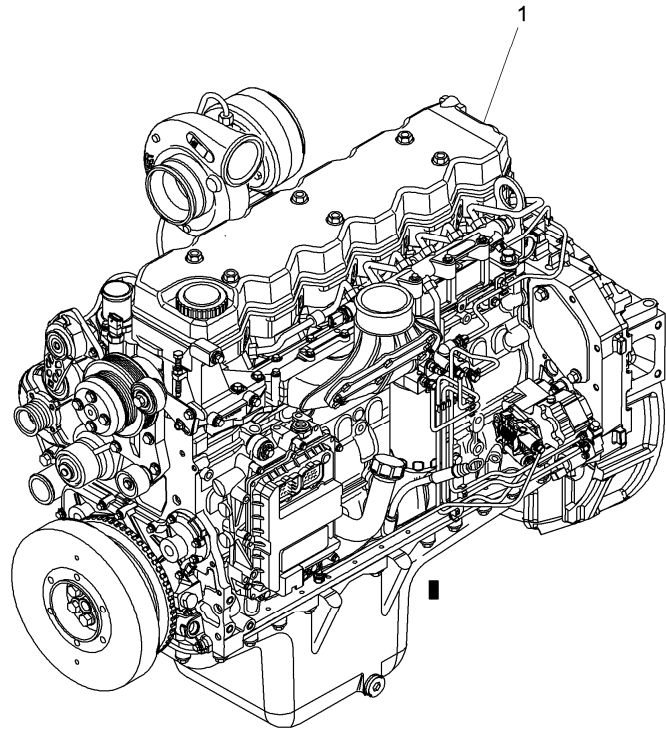
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A-05  
01



A0501

Engine assembly



			Inglese
1	6507291M91	➡ N14131 112 kw	1 Engine
1	6511067M91	112 kw	1 Engine
		A	
		B	
		C	
1	713019A1	➡ N14130 112 kw	1 Engine

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

Engine

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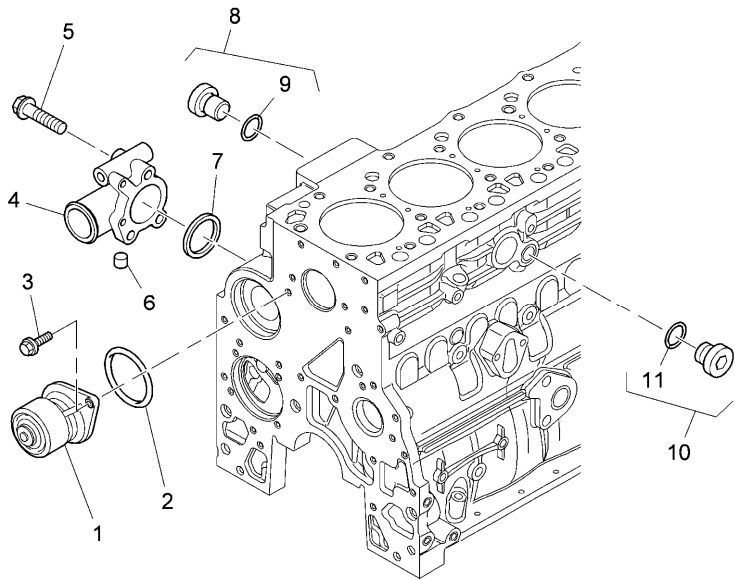
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A-05  
02



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		

Engine

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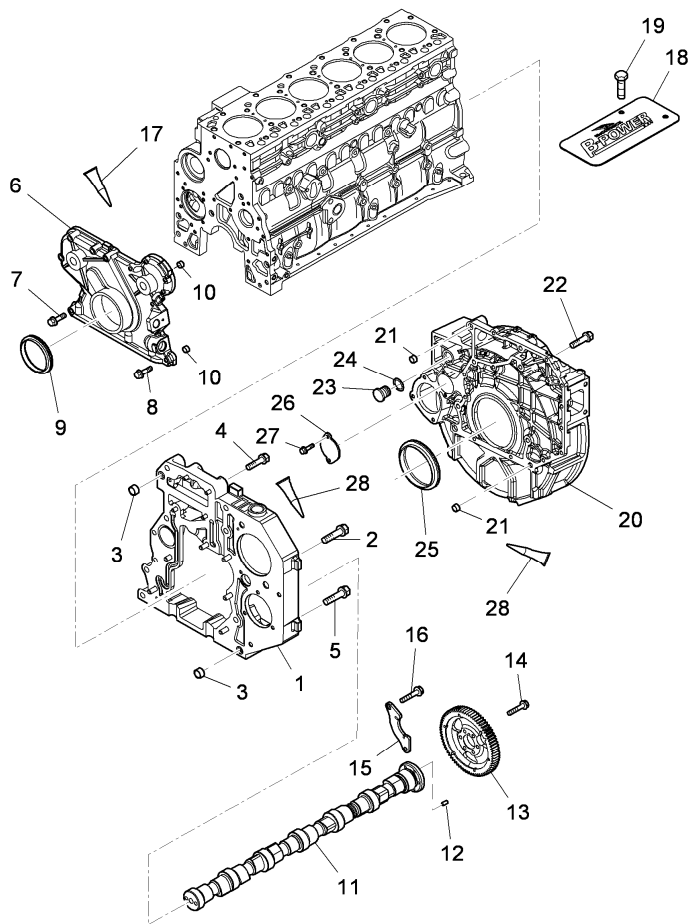
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A-05  
03



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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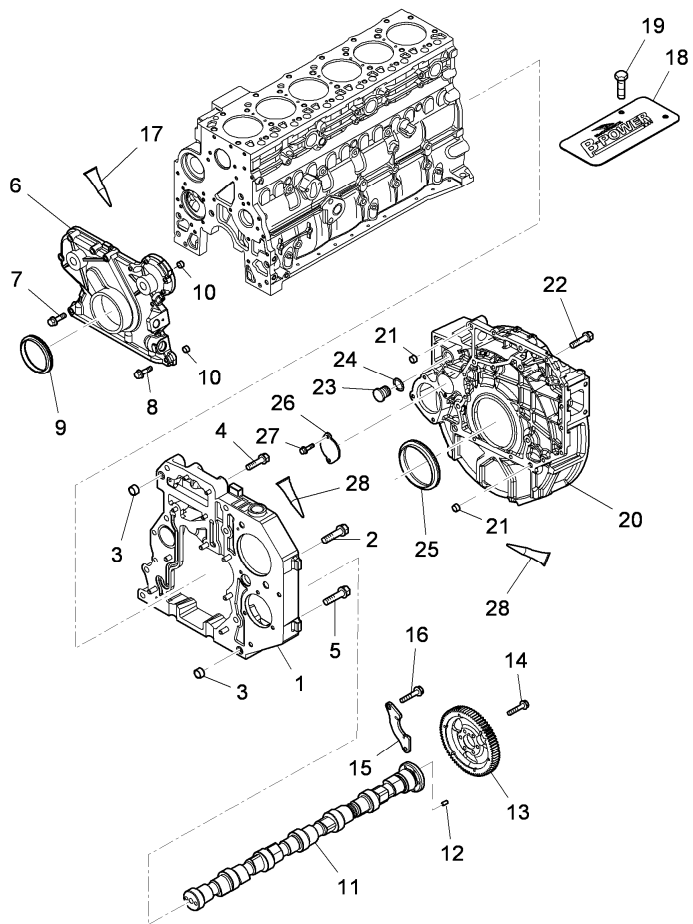
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A-05  
03



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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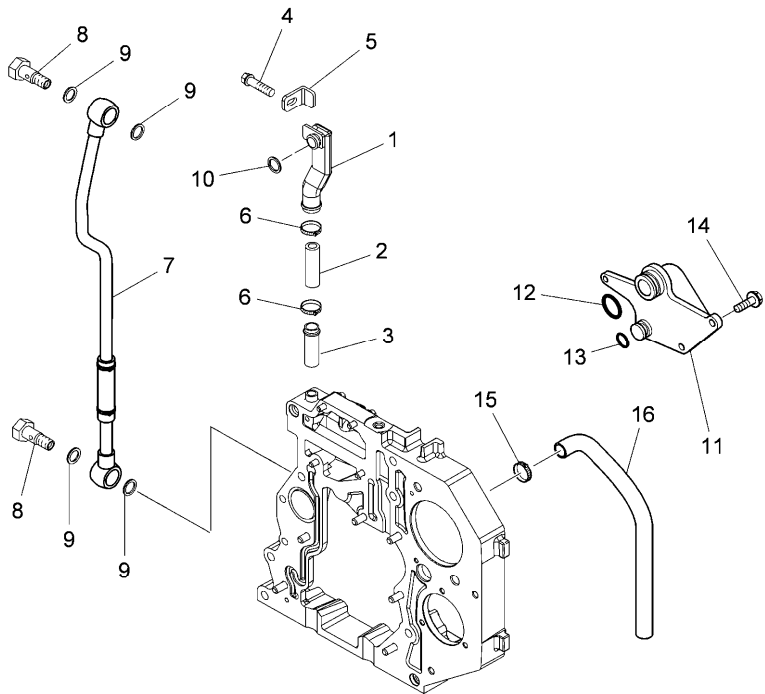
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A-05  
04



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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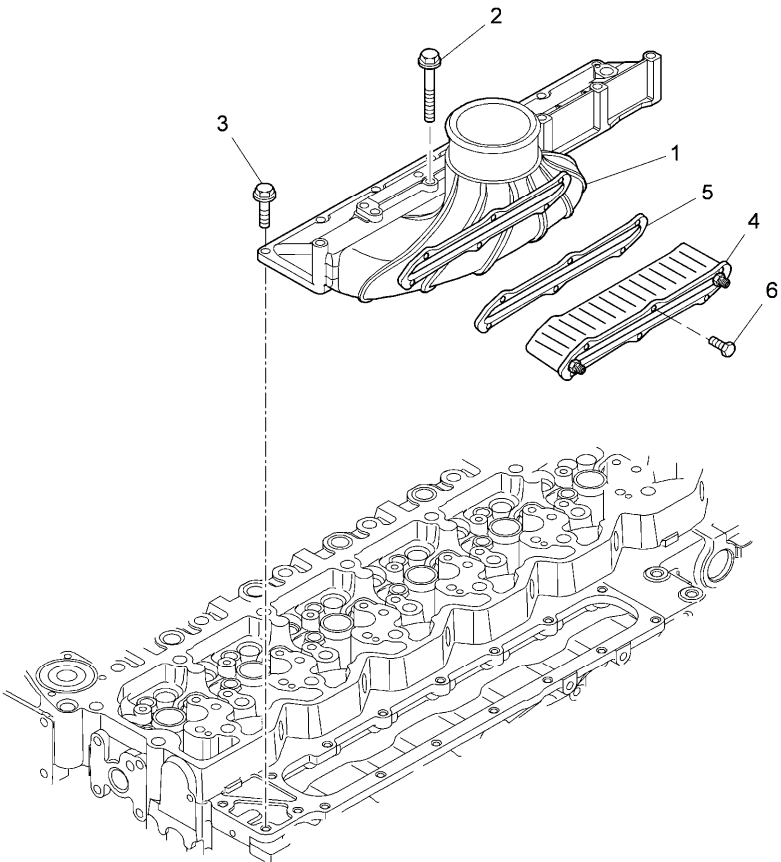
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A-05  
05



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

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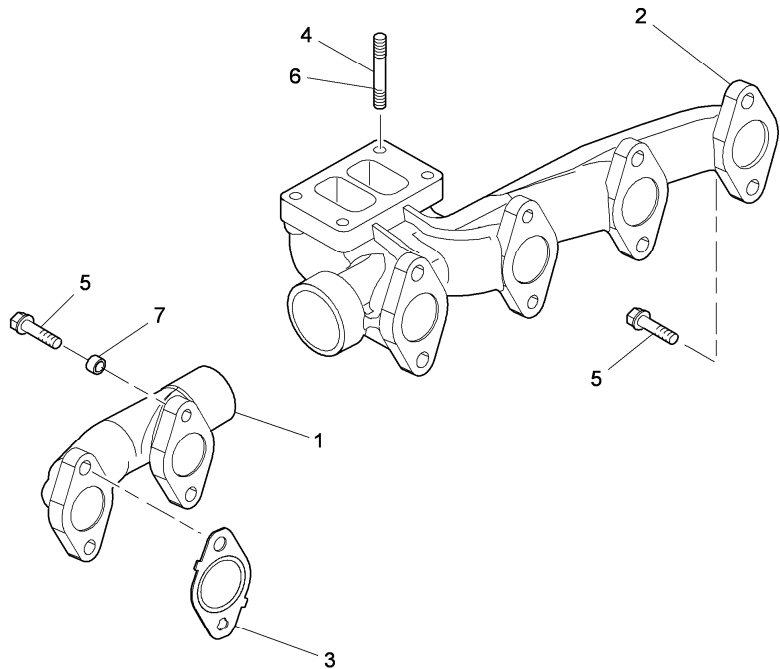
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A-05  
06



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

Engine

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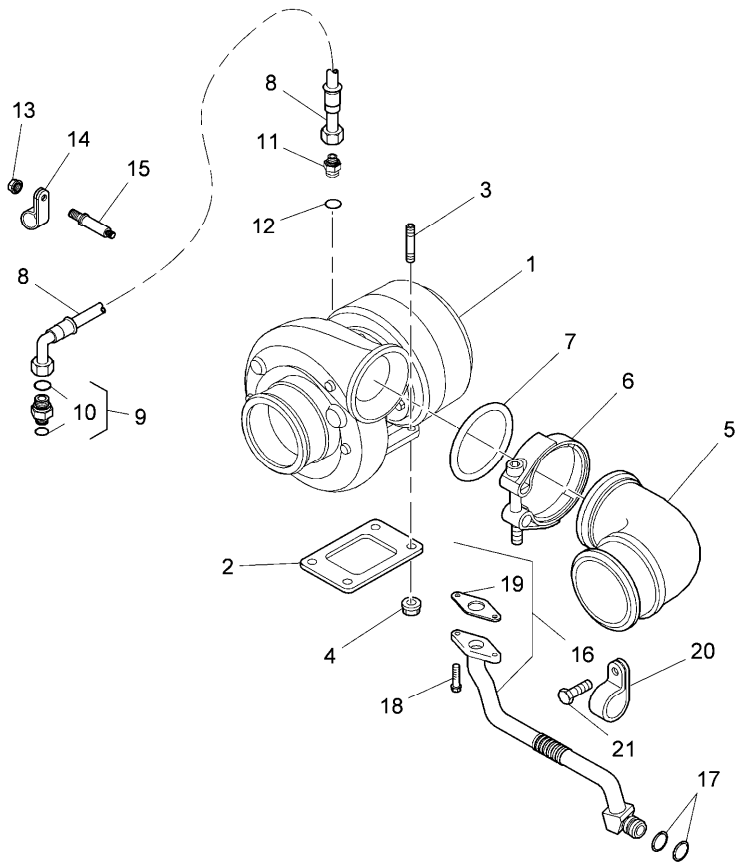
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A-05  
07



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
		●	3688864M1(1)	
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
		●	3688856M1(1)	
19	707389A1	!	16	1 Gasket, housing
		●	36888672M1(1)	
20	704905A1			1 Clip
21	707366A1	◄	M12 x 25 mm	1 Bolt

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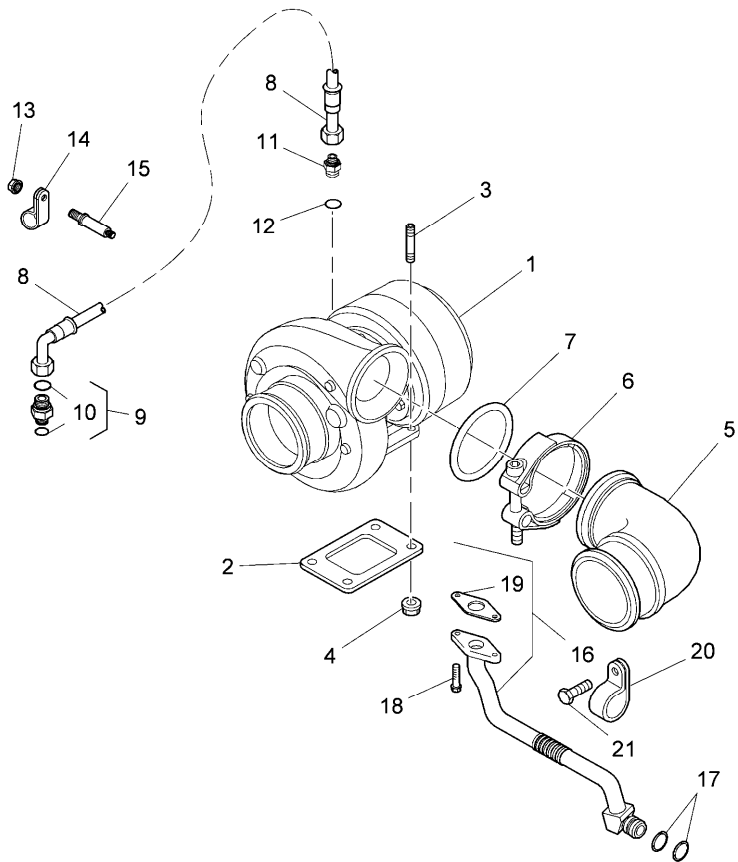
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07



A0507

Supercharging system

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



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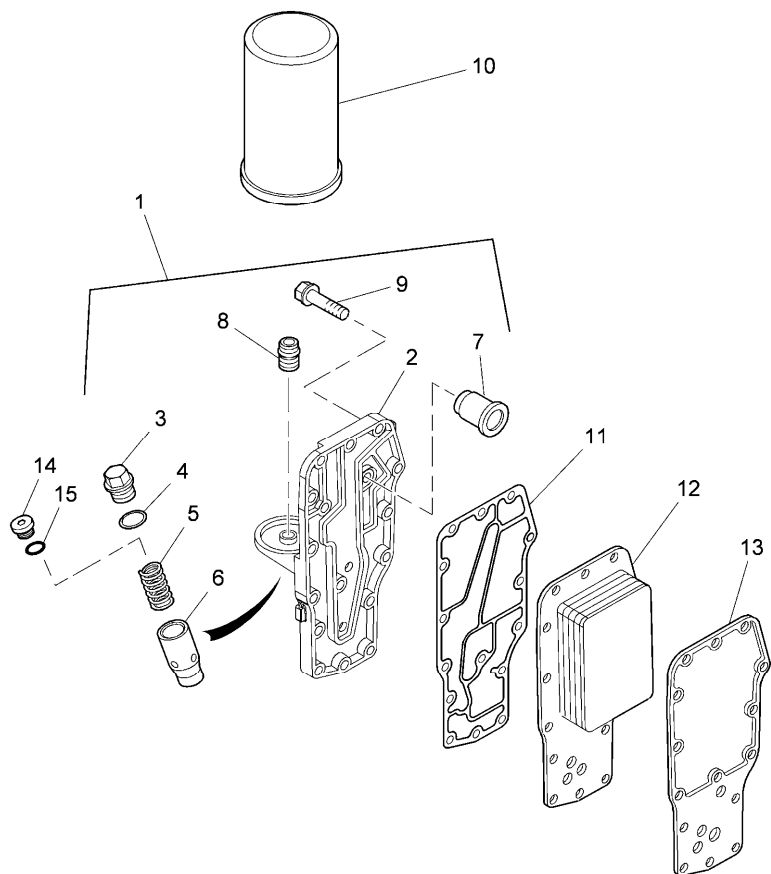
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**A-05  
08**



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	1 Plug
		● 708989A1(1)	
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	10 Bolt
		◄ M8 x35 mm	
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	2 Bolt
		A	
17	704991A1	A	3 Bolt

! This is a component of an assembly

◄ Length

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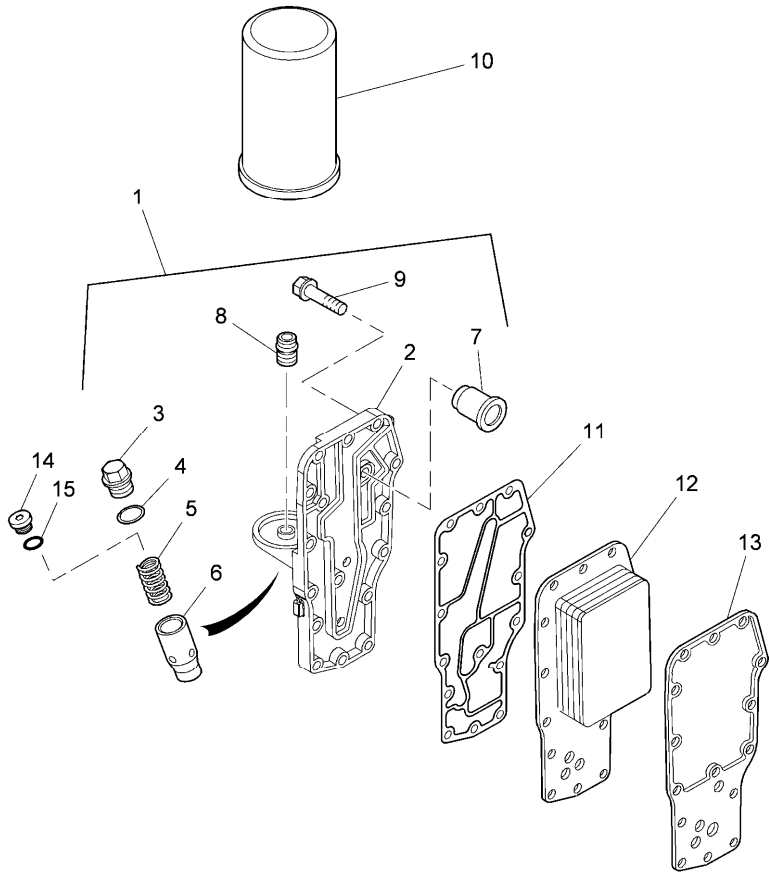
A-05  
08



A0508

Oil filter and cooler

- Replacement
- A Not illustrated



Engine

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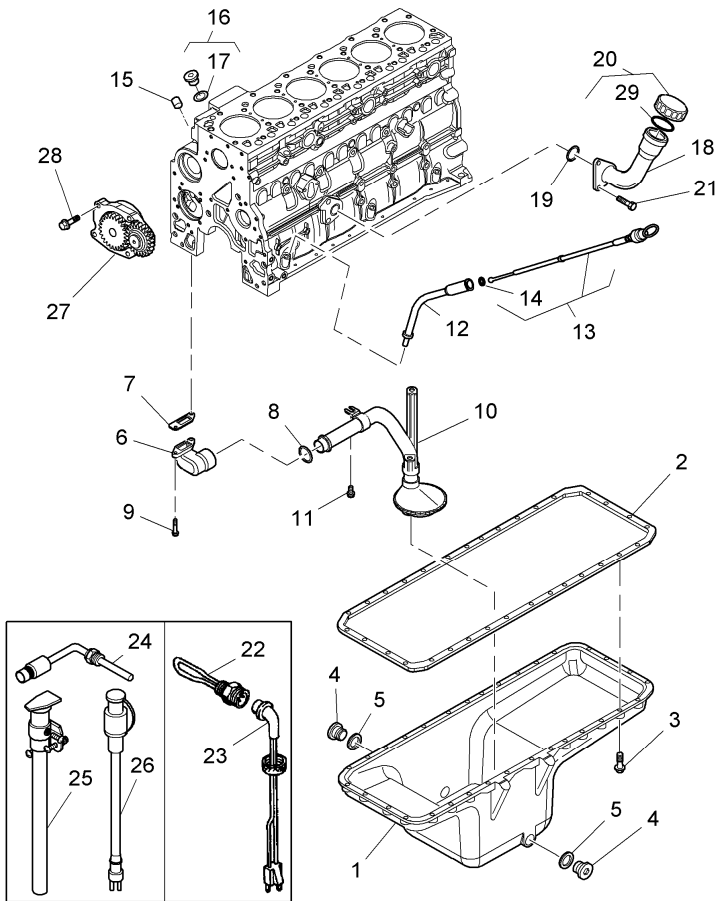
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A-05  
09



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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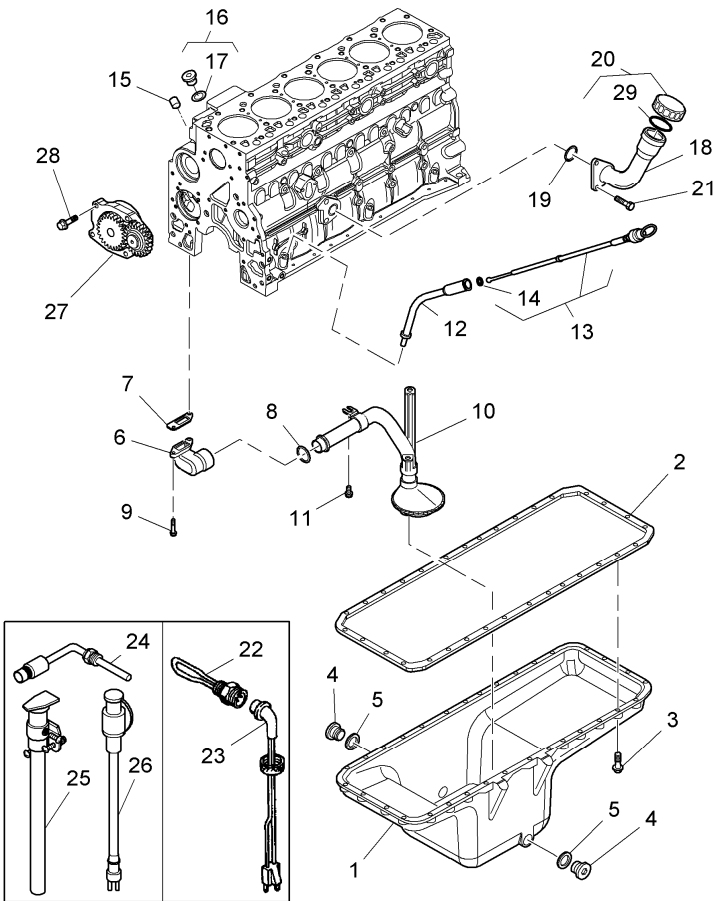
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**A-05  
09**



A0509

Lubricating oil pump and delivery housing



**Inglese**

24	706391A1	B	1	Heater
25	314722A1	B	1	Harness
26	314723A1	B	1	Cable
27	704933A1	● 6501709M1(1)	1	Pump
28	705012A1		4	Bolt
29	713806A1	! 20	1	O-ring
!	This is a component of an assembly			
◄	Length			
●	Replacement			
A	For market "n.a.o."			
B	Excluded "n.a.o." market			

Engine

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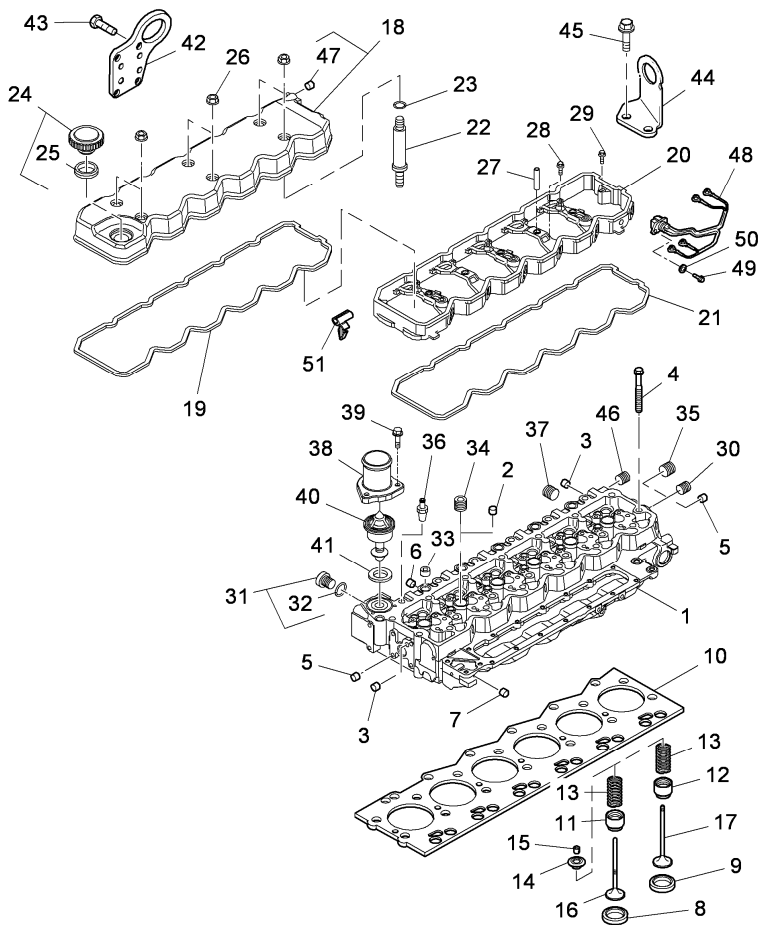
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A-05  
10



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

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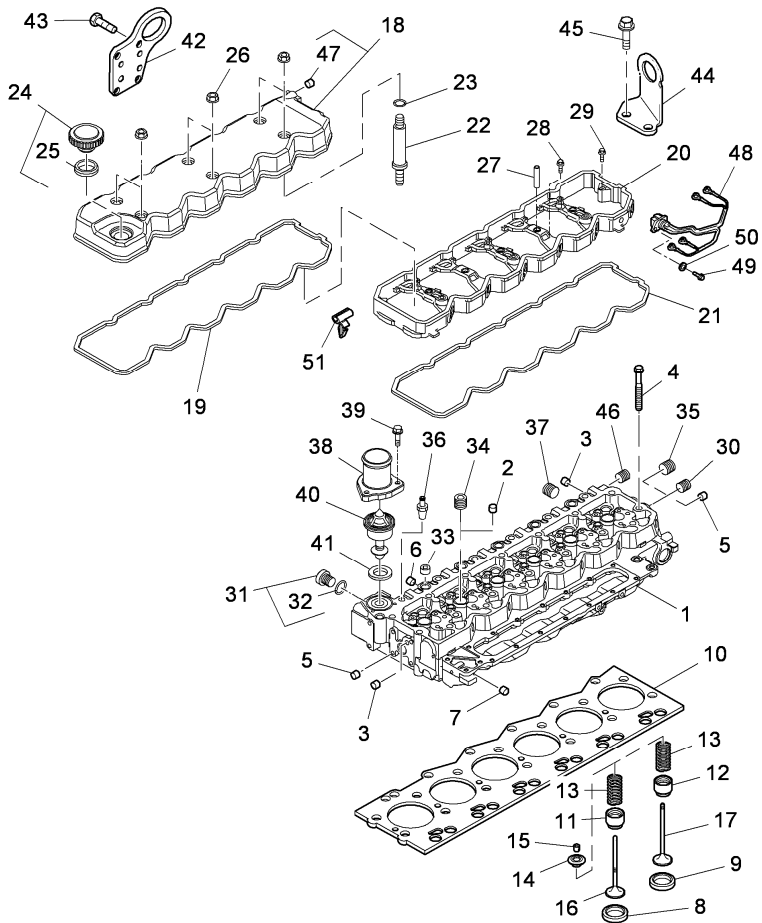
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10



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			6 Nut
27	705039A1			5 Bushing
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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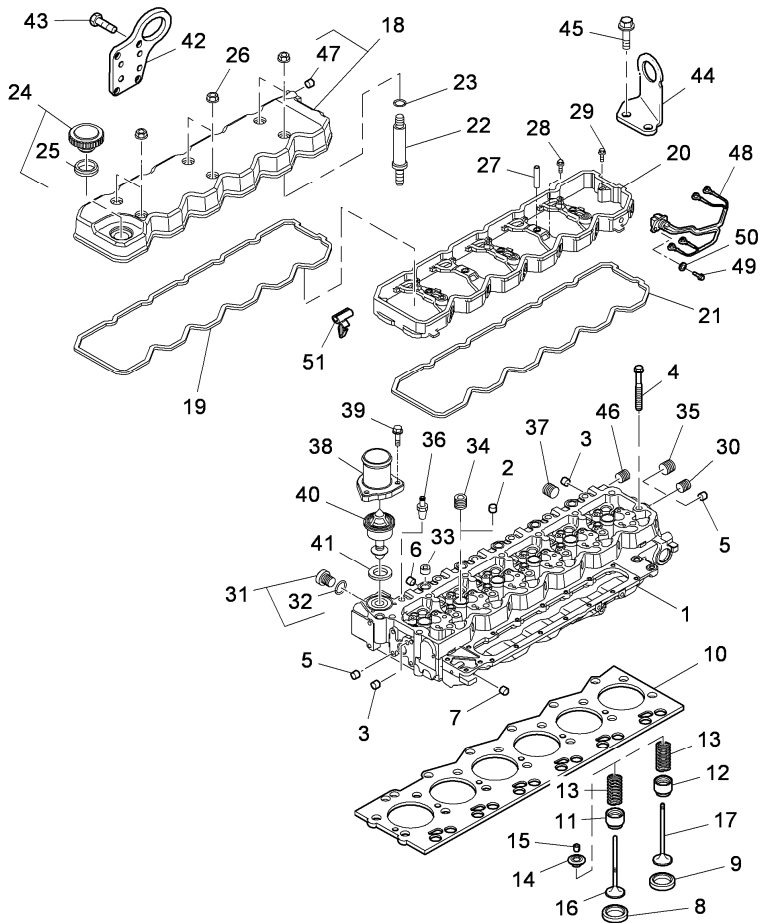
**A-05**  
**10**



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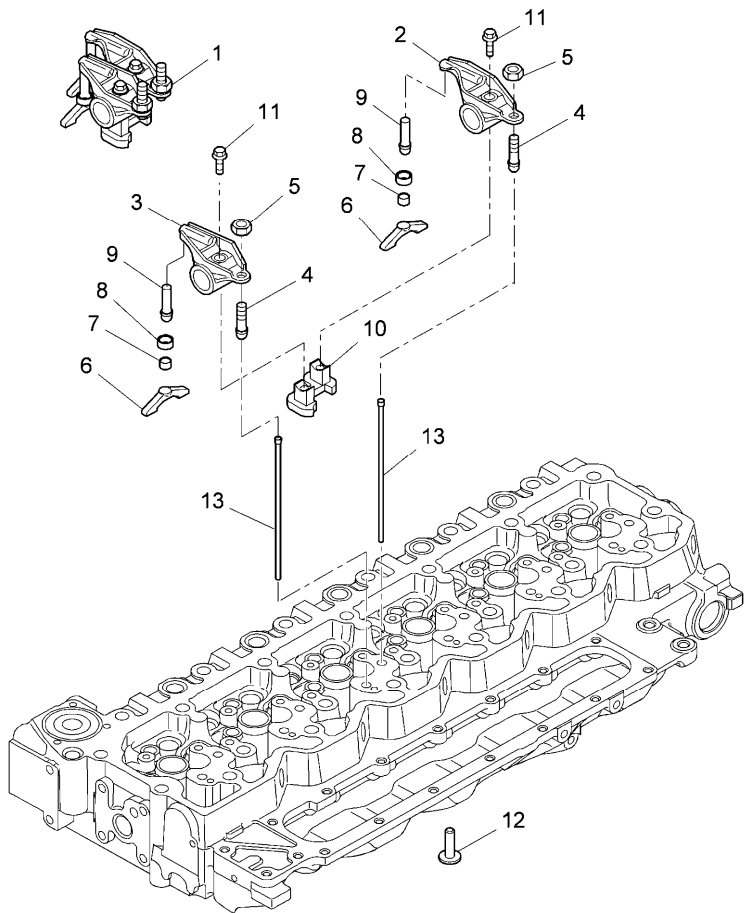
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**A-05**  
**11**



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		

Engine

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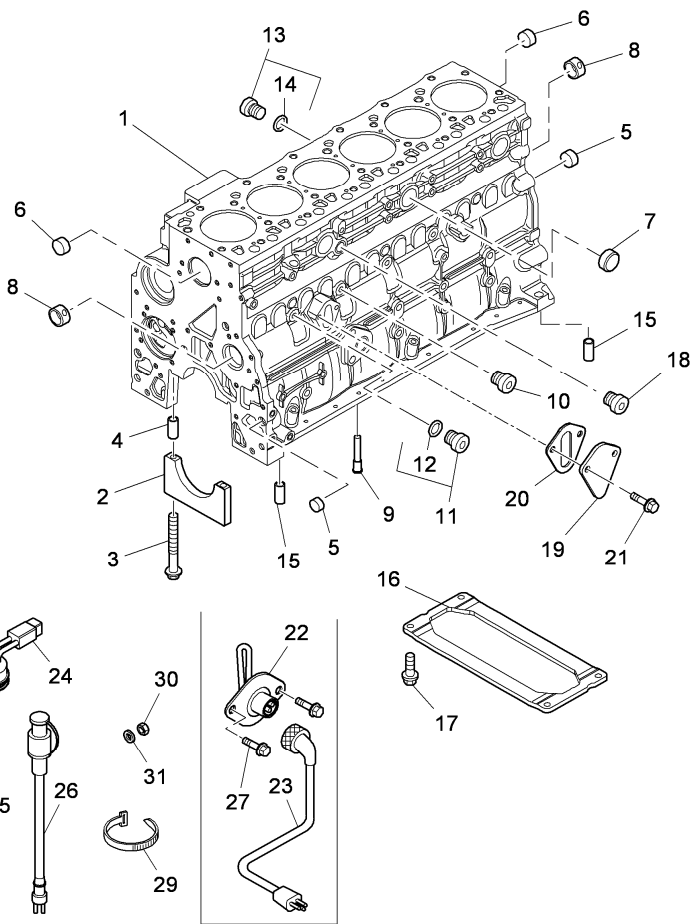
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12



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

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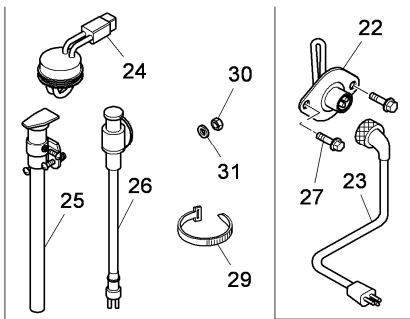
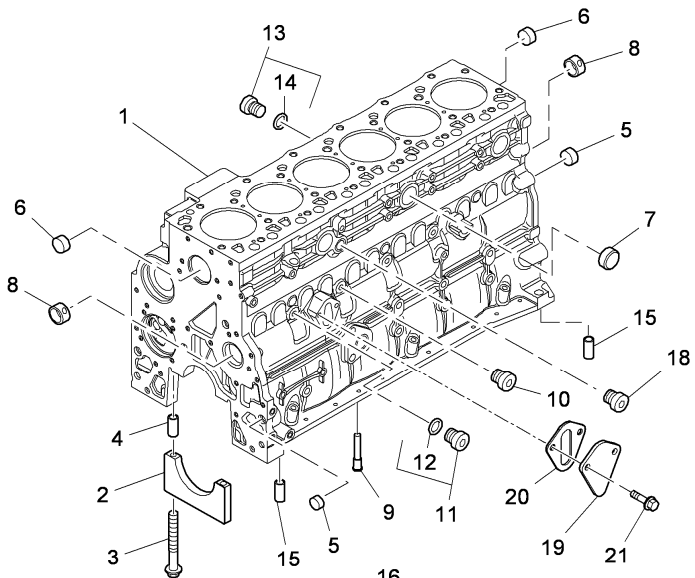
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A0512

Cylinder block

XTX3\00006495.png



		Inglese
23	J905113	1 Cable
	◀▶ 1829 mm	
	A	
24	706389A1	1 Heater
	B	
	C	
25	314722A1	1 Harness
	B	
26	314723A1	1 Cable
	B	
27	3009193X1	2 Screw
	◀▶ M8x20	
	A	
28	713174A1	6 Nozzle
29	289862C1	3 Clamp
	B	
30	390995X1	1 Nut
	B	
31	893-16005	2 Washer
	B	
!	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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13



A0513

Crankshaft

Inglese

11 704720A1

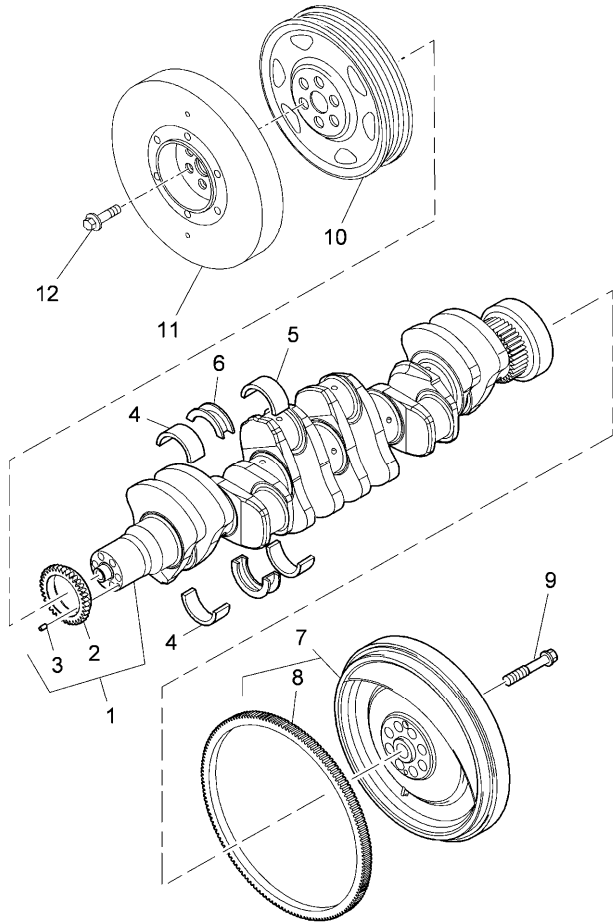
1 Damper

12 704718A1

6 Screw

! This is a component of an assembly

● Replacement



Engine

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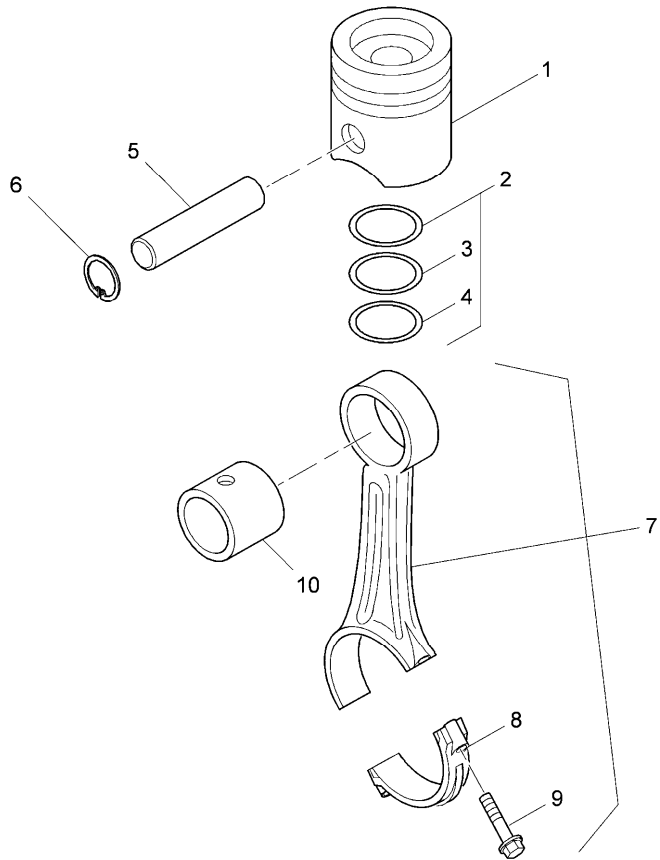
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**A-05**  
**14**



A0514

Pistons and connecting rods



Inglese

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

- ! This is a component of an assembly  
● Replacement

Engine

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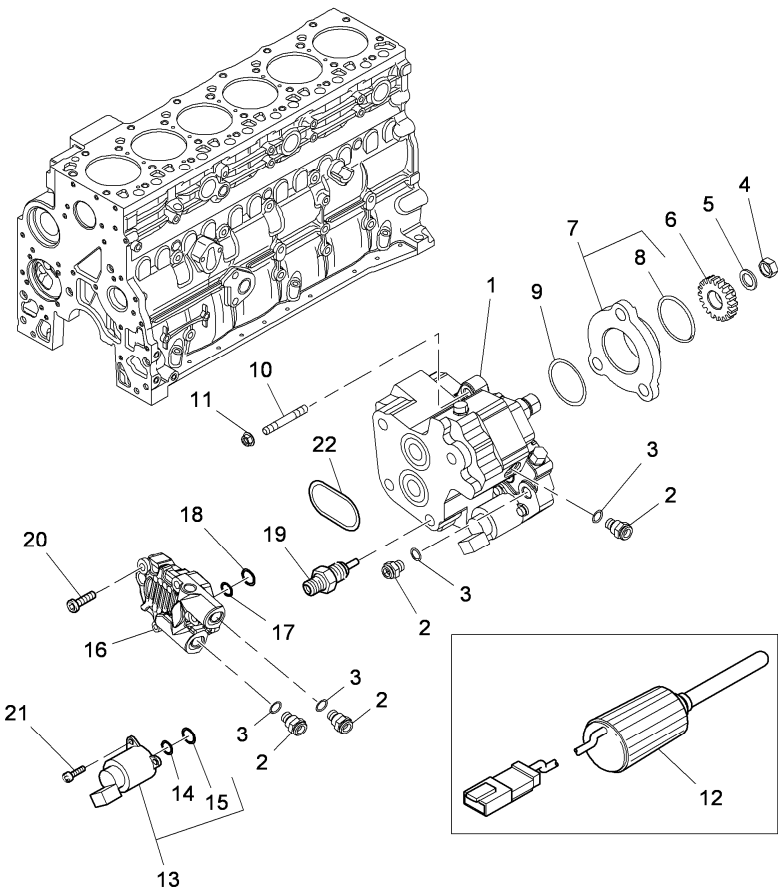
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**A-05  
15**



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

Engine

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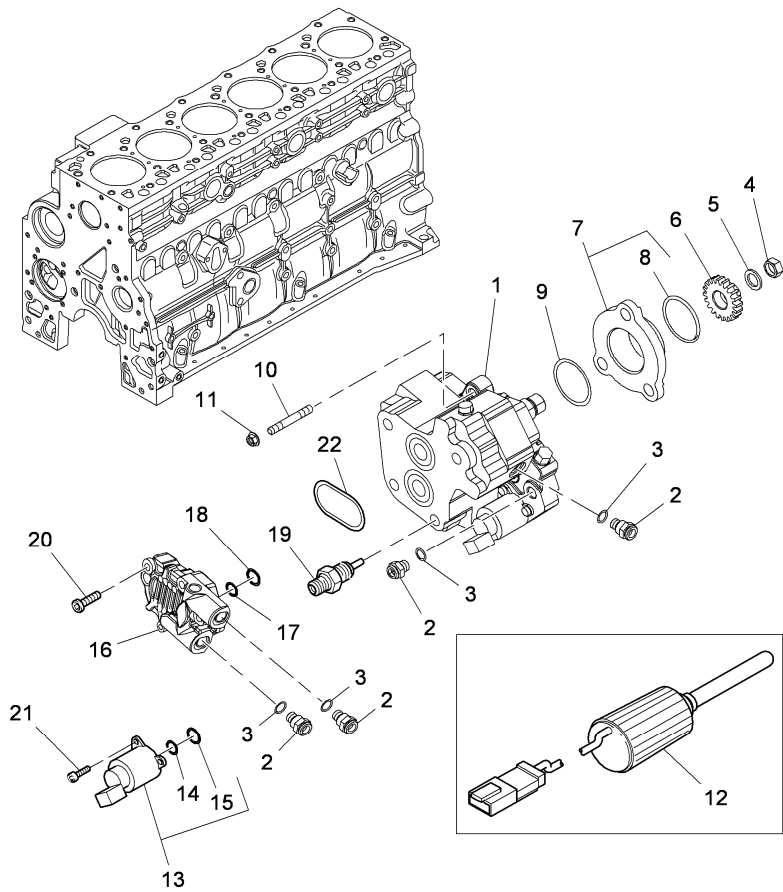
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15



A0515

Injection pump assy

A On request



Engine

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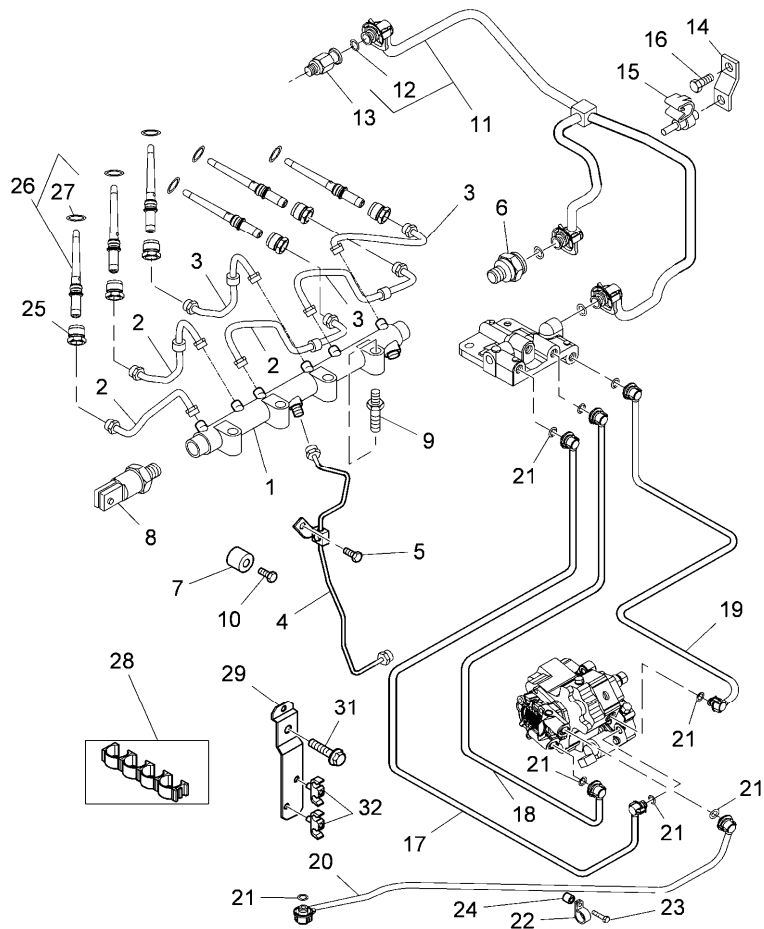
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A0516

Fuel lines



		Inglese
1	714688A1	1 Cylinder
2	714692A1	● 4218887M1(3) 3 Pipe
3	714691A1	● 4218886M1(3) 3 Pipe
4	714690A1	● 4218885M1(1) 1 Pipe
5	710625A1	◄ M8 x 20 mm 1 Bolt
6	714687A1	! 1 1 Valve, check
		● 3689078M2(1)
7	714693A1	1 Spacer
8	714689A1	● 3689100M2(1) 1 Sensor assy
	A	
9	705148A1	! 1 4 Bolt
10	704904A1	1 Bolt
11	714715A1	1 Tube assy
12	707394A1	! 11 3 O-ring
		● 3688690M1(3)
13	707409A1	● 3688806M1(1) 1 Valve, check
14	705352A1	1 Bracket
15	712173A1	● 705191A1(1) 1 Clamp
16	704560A1	◄ M8 x 16 mm 1 Bolt
17	707440A1	1 Pipe
18	707441A1	1 Pipe
19	707442A1	1 Pipe
20	707417A1	1 Pipe
21	707394A1	! 17-18-19-20 1 O-ring
		● 3688690M1(1)



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Engine

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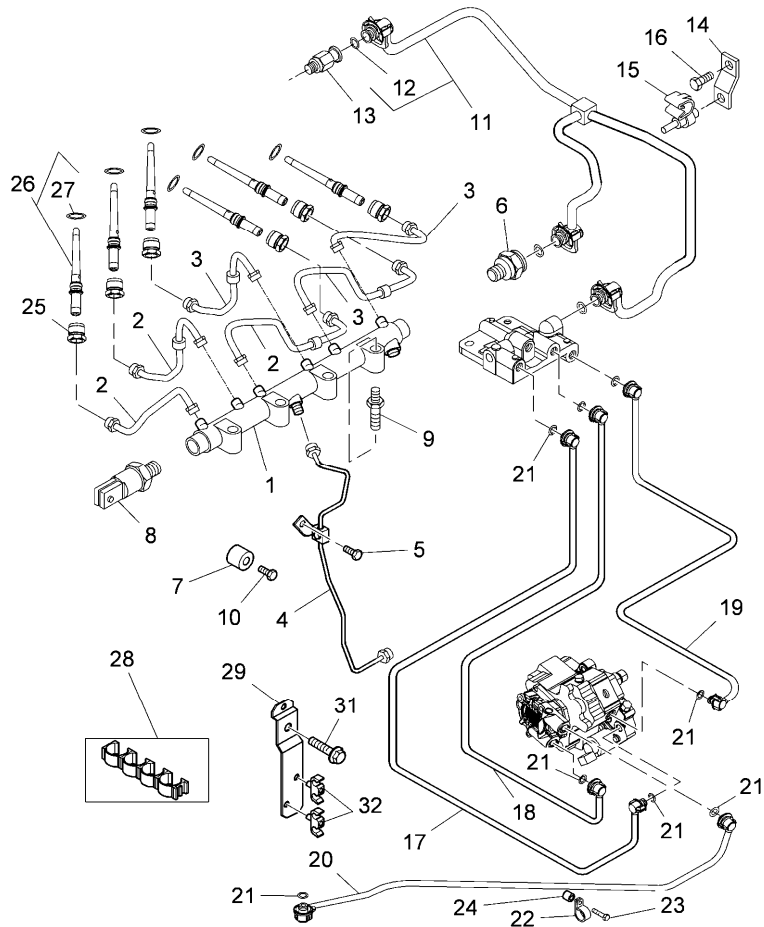
**A-05  
16**



A0516

Fuel lines

XTX3\00006507.png



22	704596A1	●	3689003M1(1)	1	Clamp
23	707364A1			1	Bolt
24	713805A1			1	Spacer
25	704736A1			6	Nut, special
26	713799A1			6	Tube assy
27	704689A1	!	26	1	O-ring
		●	3688649M1(1)		
28	713804A1	●	6513429M1(1)	1	Clamp
29	705125A1			1	Retainer
30	705349A1	B		1	Clamp
31	704929A1			1	Clamp
32	714714A1	●	704601A1(2)	2	Clamp
!	This is a component of an assembly				
◄	Length				
●	Replacement				
A	Pressure				
B	Not illustrated				

**Inglese**

Engine

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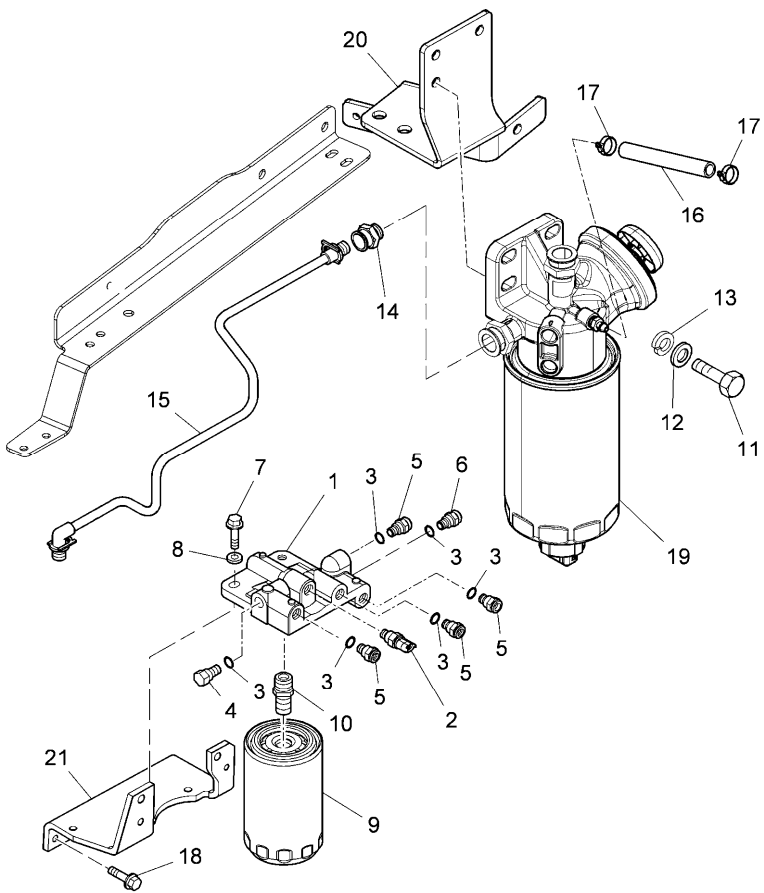
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A0517

Fuel filter



		Inglese	
1	705297A1		1 Support assy
2	704923A1	! 1	1 Sensor
		● 3688813M1(1)	
		A	
3	707396A1	! 1	6 Washer
		● 3688754M1(6)	
4	704734A1	! 1	1 Plug
5	704690A1	! 1	4 Union
		● 3688650M1(4)	
6	703999A1	! 1	1 Connector
		Voss	
7	704647A1		2 Bolt
8	704645A1		2 Washer
9	711853A1		1 Filter, fuel
10		! 1	1 Union
		➡ Ref.n.1	
11	339337X1	◄ M8x30mm	3 Screw
12	390972X1	● Substitutions error	3 Washer
13	1440313X1	● Substitutions error	3 Lock washer
14		◁ C-32 08 39	1 Connector
		Voss	
15		◁ C-32 08 37	1 Pipe
16		◄ 1350 mm	1 Hose
		◁ C-32 08 7	
		B	

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