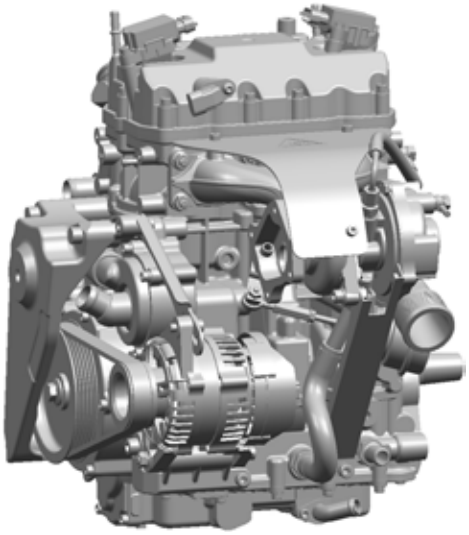
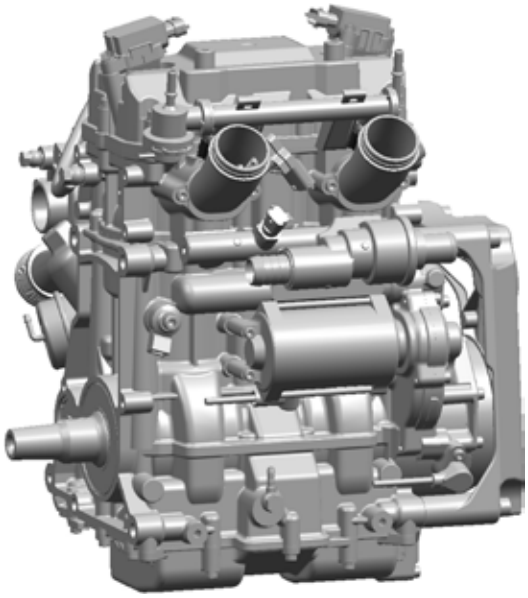
Weber Automotive

MPE 750 HO Snow





This spare parts catalogue is valid for the following engine variants:

- 10055_ Snow HO 3.2 Liberty starting with model year 2007

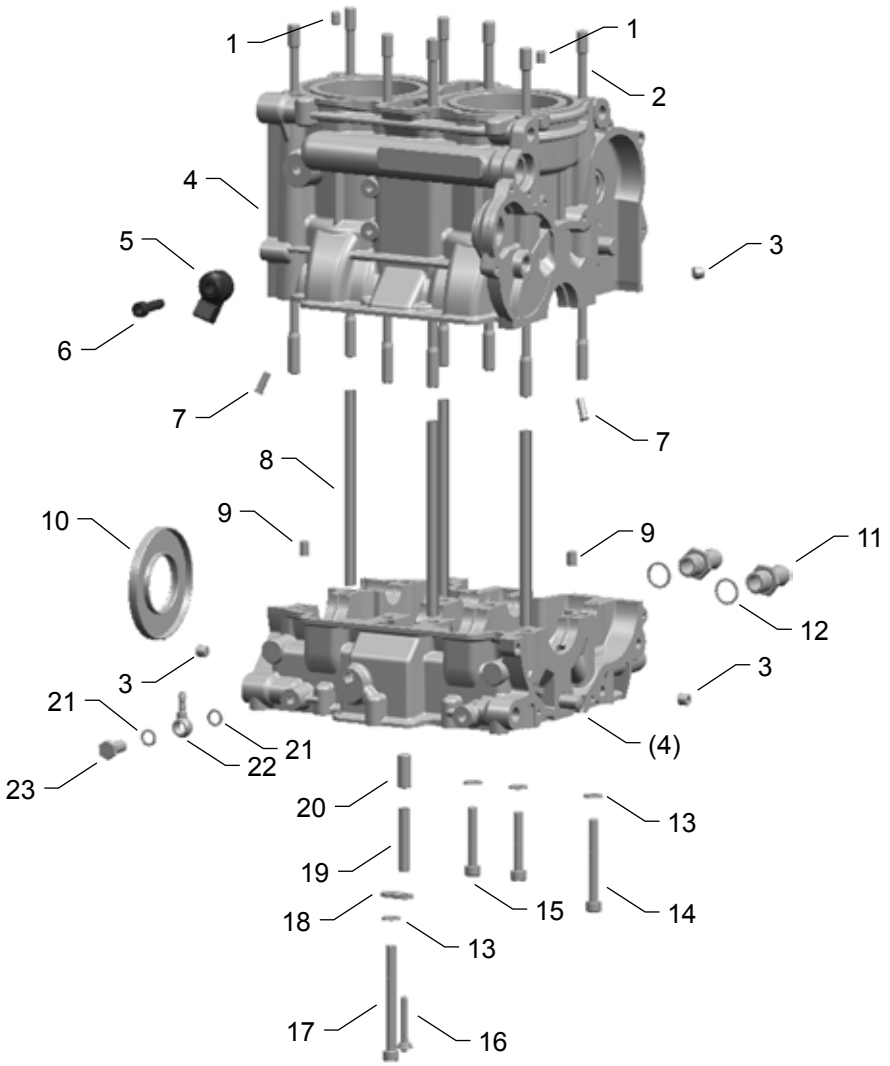
Document No: 10055 MJ07 ETK
Revision: 1.4
Date of Issue: 28.01.2009

Weber Automotive

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010 Crankcase 01 Case



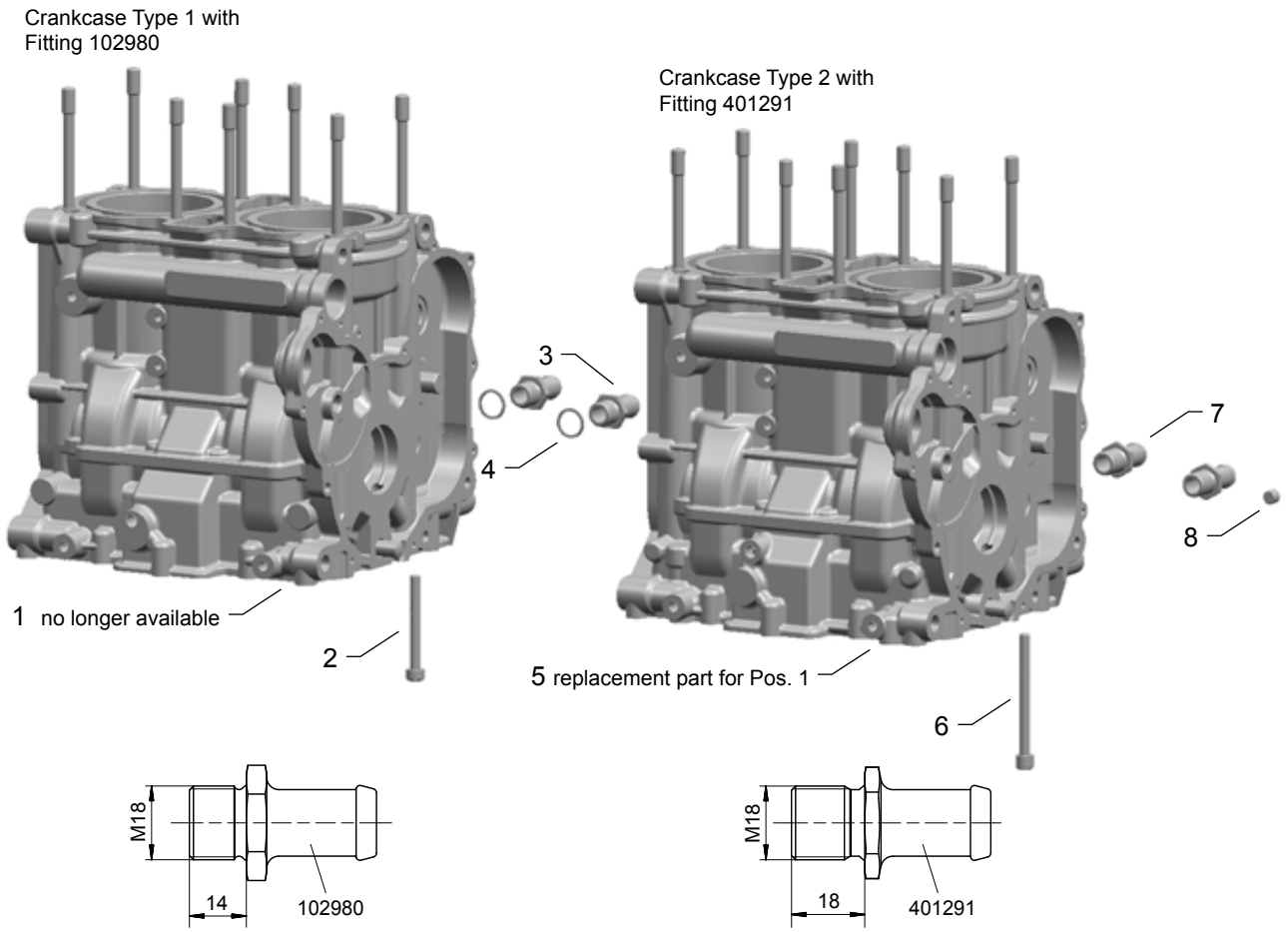
Pos.	Part No	Description		QTY
1	100280	Sleeve		2
2	100070	Tie Rod		8
3	102992	Plug		3
4	*	Crankcase incl. Pos. 2, 3, 7, 9, 1x 13, 1x 15		1
5	**	Knock Sensor		1
6	**	Bolt	M8x30 8.8	1
7	100287	Welch Plug		2
8	100224	Tie Rod Sleeve		4
9	100225	Centering Pin		2
10	101108	Oil Seal		1
11	*	Fitting	M18x1.5	2

Pos.	Part No	Description		QTY
12	*	Seal	18x22x1.5 Al	2
13	100468	Washer		4
14	*	Bolt	M8	1
15	100464	Bolt	M8x50 10.9	2
16	102442	Pin		1
17	100467	Bolt	M8x90 10.9	1
18	100297	Clamp Plate		1
19	100328	Spring		1
20	100072	Oil Pressure Piston		1
21	101107	Seal	10x14x1 Al	2
22	102572	Banjo Fitting		1
23	100085	Banjo Bolt	M10x1	1

* See next page
** See Chapter Engine Management System

010 Crankcase

01 Case (continuation)



Pos.	Part No	Description		QTY
1	(103865)	Crankcase Type 1		1
2	100466	Bolt	M8x70 10.9	1
3	102980	Fitting	M18x1.5x14	2
4	100454	Seal	18x22x1.5 Al	2

Pos.	Part No	Description		QTY
5	104022	Crankcase Type 2		1
6	100467	Bolt	M8x90 10.9	1
7	401291	Fitting	M18x1.5x18	2
8	102992	Plug		1

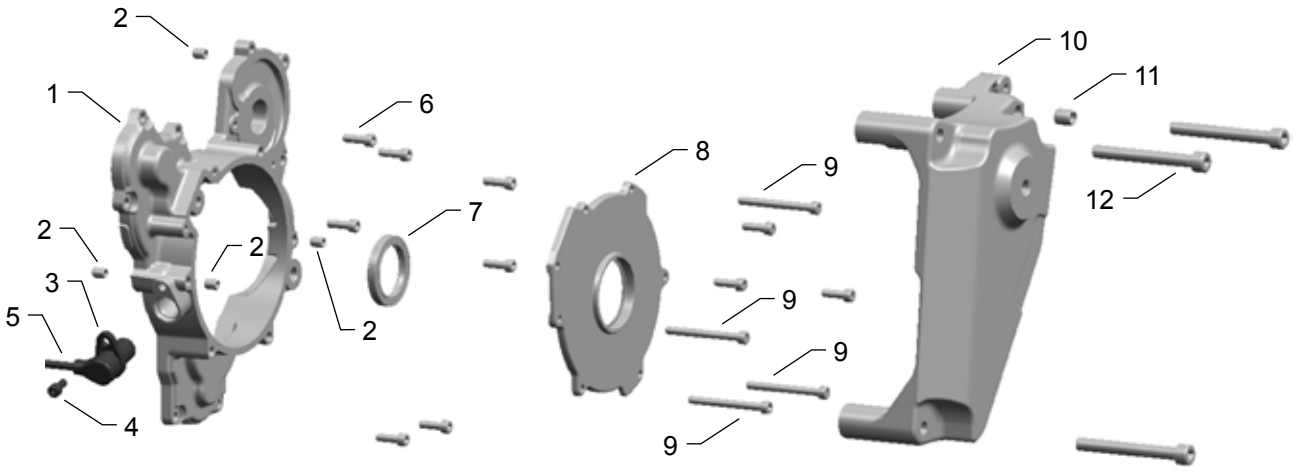
The crankcase can be differentiated according to the Fitting.

Device-dependent parts are:

- Fitting M18x1.5
- Bolt M8

Along with a change in crankcase type, these parts must also be exchanged.

010 Crankcase 02 Front Cover

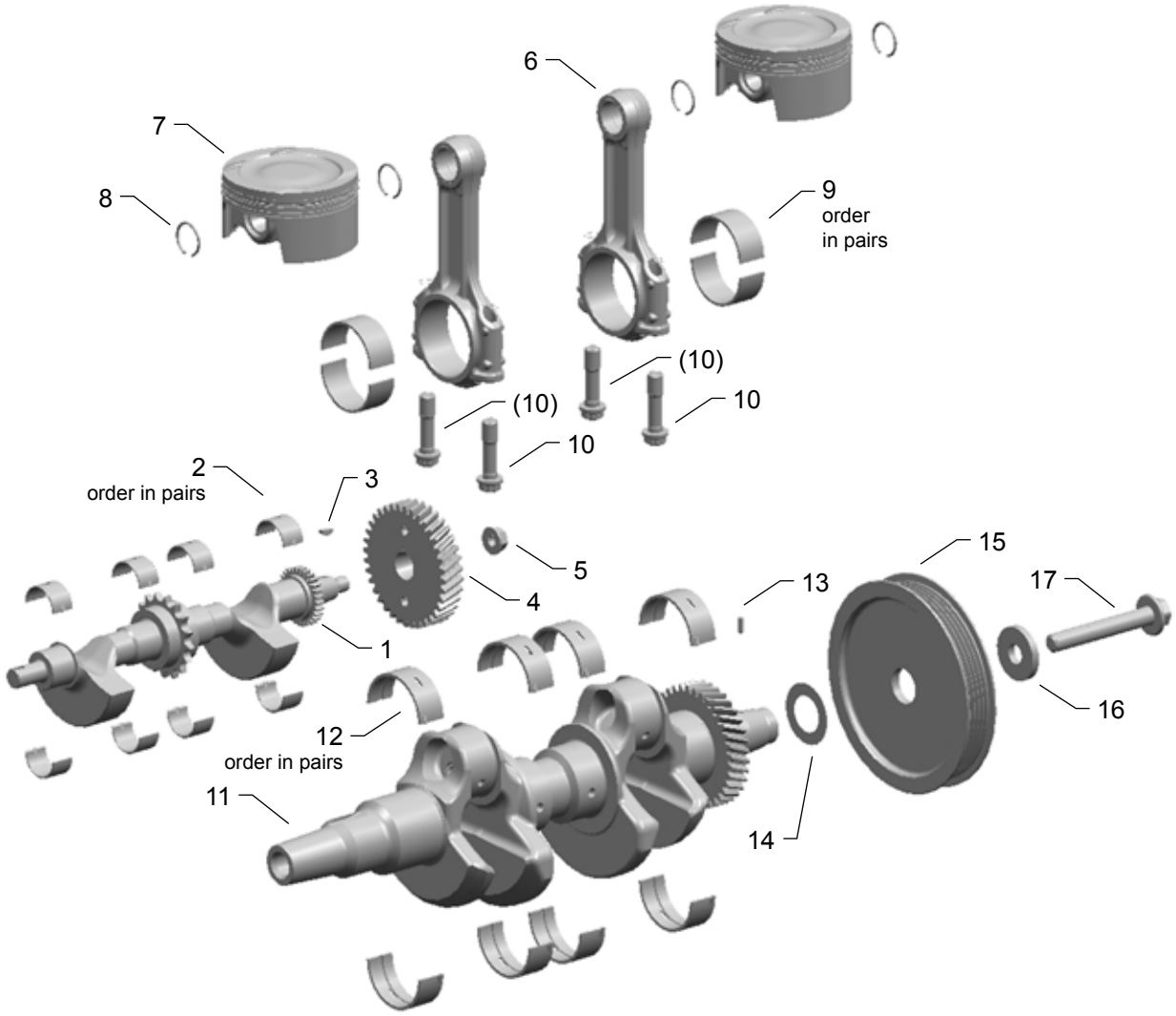


Pos.	Part No	Description		QTY
1	103635	Front Cover		1
2	100280	Sleeve		4
3	*	Sensor Crankshaft		1
4	*	Bolt	M6x12	1
5	*	Conduit		1
6	100501	Bolt	M6x20 8.8	10
7	101525	Oil Seal		1
8	102476	Generator Cover		1
9	100549	Bolt	M6x65 8.8	4
10	400661	Engine Bracket		1

Pos.	Part No	Description		QTY
11	100228	Sleeve		1
12	102475	Bolt	M10x90 8.8	3

* See Chapter Engine Management System

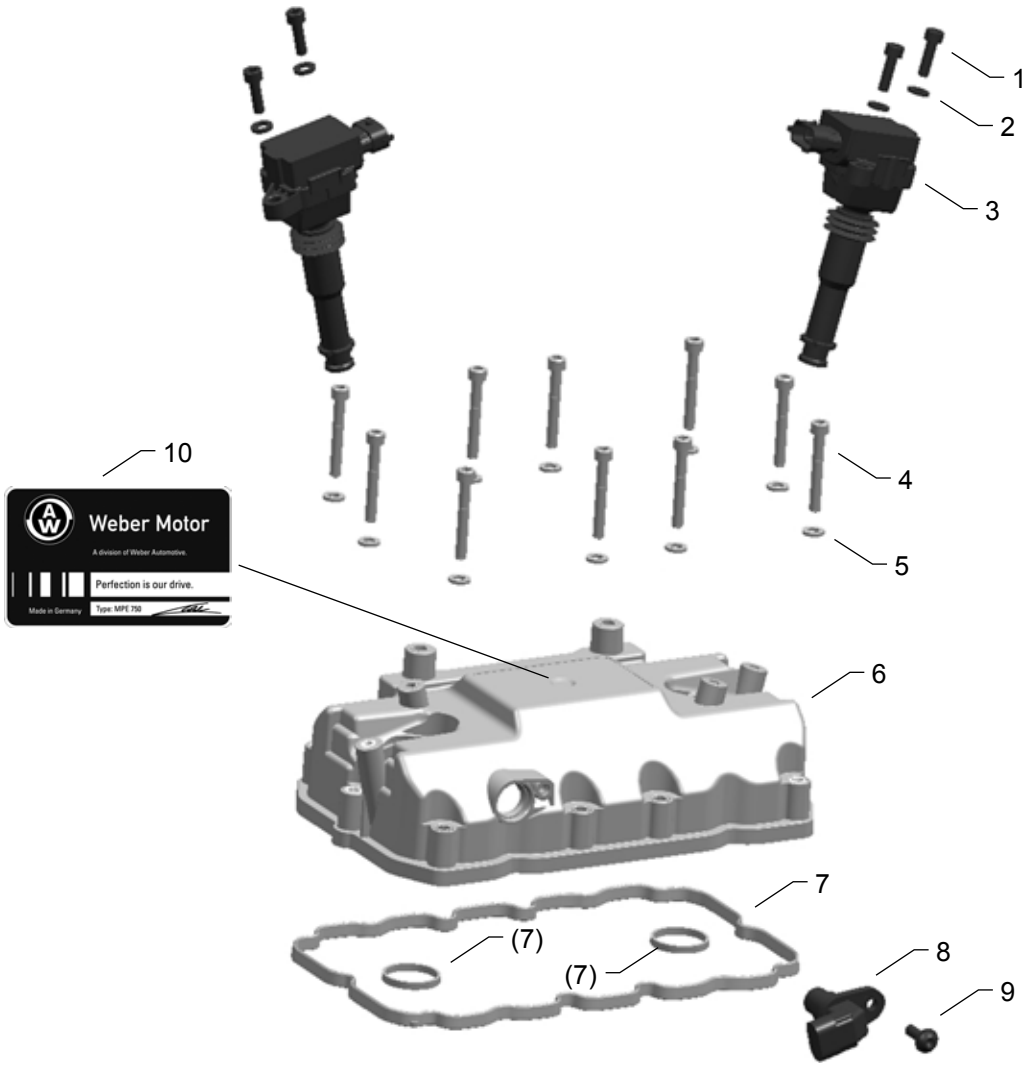
020 Crank Drive



Pos.	Part No	Description		QTY
1	102868	Balance Shaft incl. Pos. 3, 4, 5		1
2	100017	Bearing Shell Balance Shaft		8
3	100463	Key		1
4	100112	Gear Balance Shaft		1
5	100164	Nut	M10 8.8	1
6	103974	Con Rod incl. Pos. 10		2
7	102660	Piston incl. Pos. 8		2
8	100361	Circlip		4
9	100008	Con Rod Bearing Red	1.721 mm	4
or	100007	Con Rod Bearing Yellow	1.726 mm	
or	100009	Con Rod Bearing Blue	1.731 mm	
or	100010	Con Rod Bearing Green	1.736 mm	
or	100011	Con Rod Bearing Brown	1.741 mm	

Pos.	Part No	Description		QTY
10	103694	2x Con-Rod Bolt	M10x1x38	2
11	100338	Crankshaft		1
16	100013	Main Bearing Red	1.990 mm	8
or	100012	Main Bearing Yellow	1.995 mm	
or	100014	Main Bearing Blue	2.000 mm	
or	100015	Main Bearing Green	2.005 mm	
or	100016	Main Bearing Brown	2.010 mm	
13	103105	Parallel Pin		1
14	103111	Washer		1
15	102949	Pulley		1
16	103028	Washer		1
17	103042	Bolt	M12x80 10.9	1

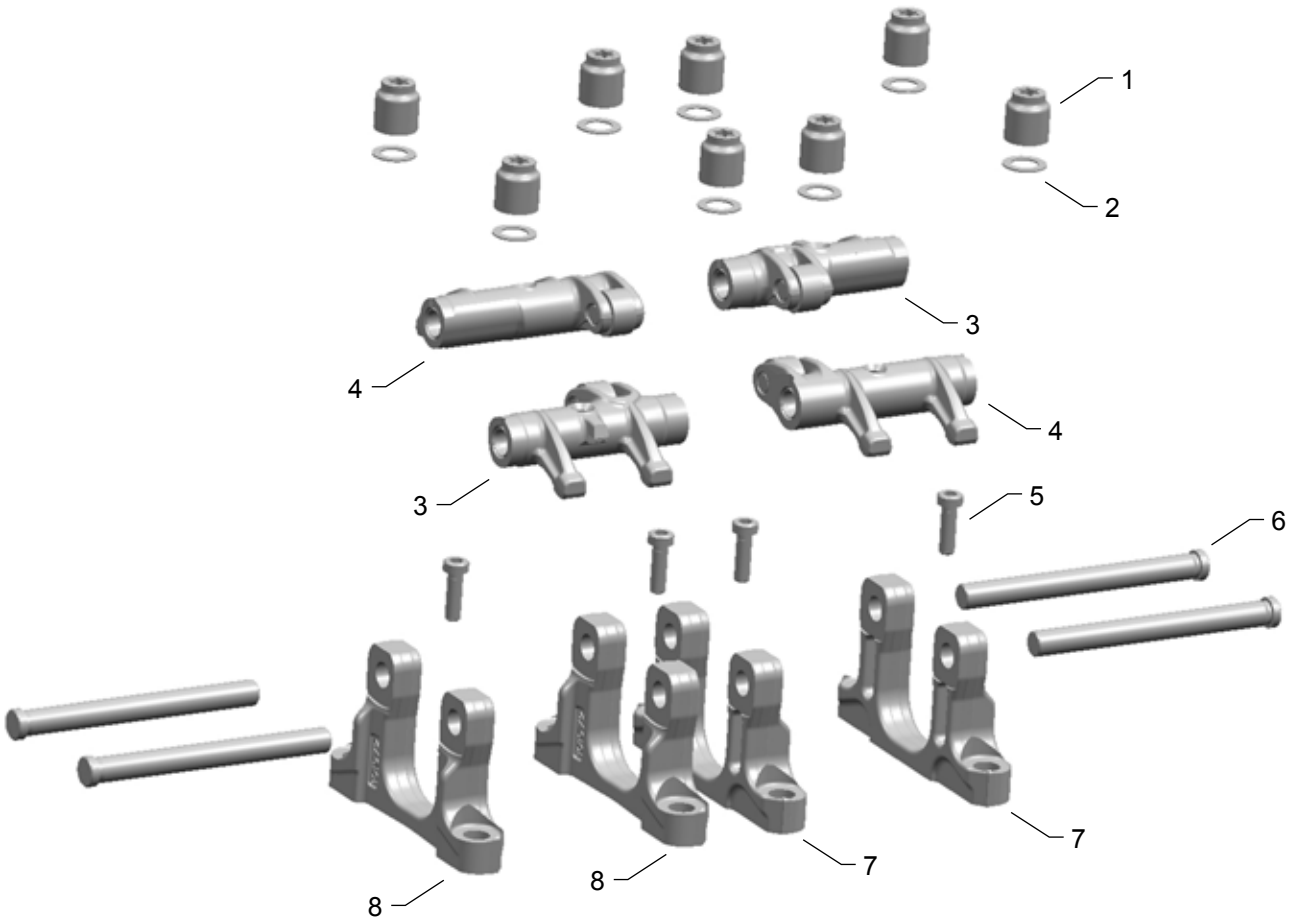
030 Cylinder Head — 01 Valve Cover



Pos.	Part No	Description		QTY
1	*	Bolt	M6x20 8.8	4
2	*	Washer		4
3	*	Ignition Coil		2
4	100446	Bolt	M6x45	10
5	100448	Washer		10
6	102941	Valve Cover Black incl. Pos. 7, 8, 9		1
7	102134	Valve Cover Seal		1
8	*	Sensor Camshaft		1
9	*	Bolt	6x18	1
10	402159	Engine Badge		1

* See Chapter Engine Management System

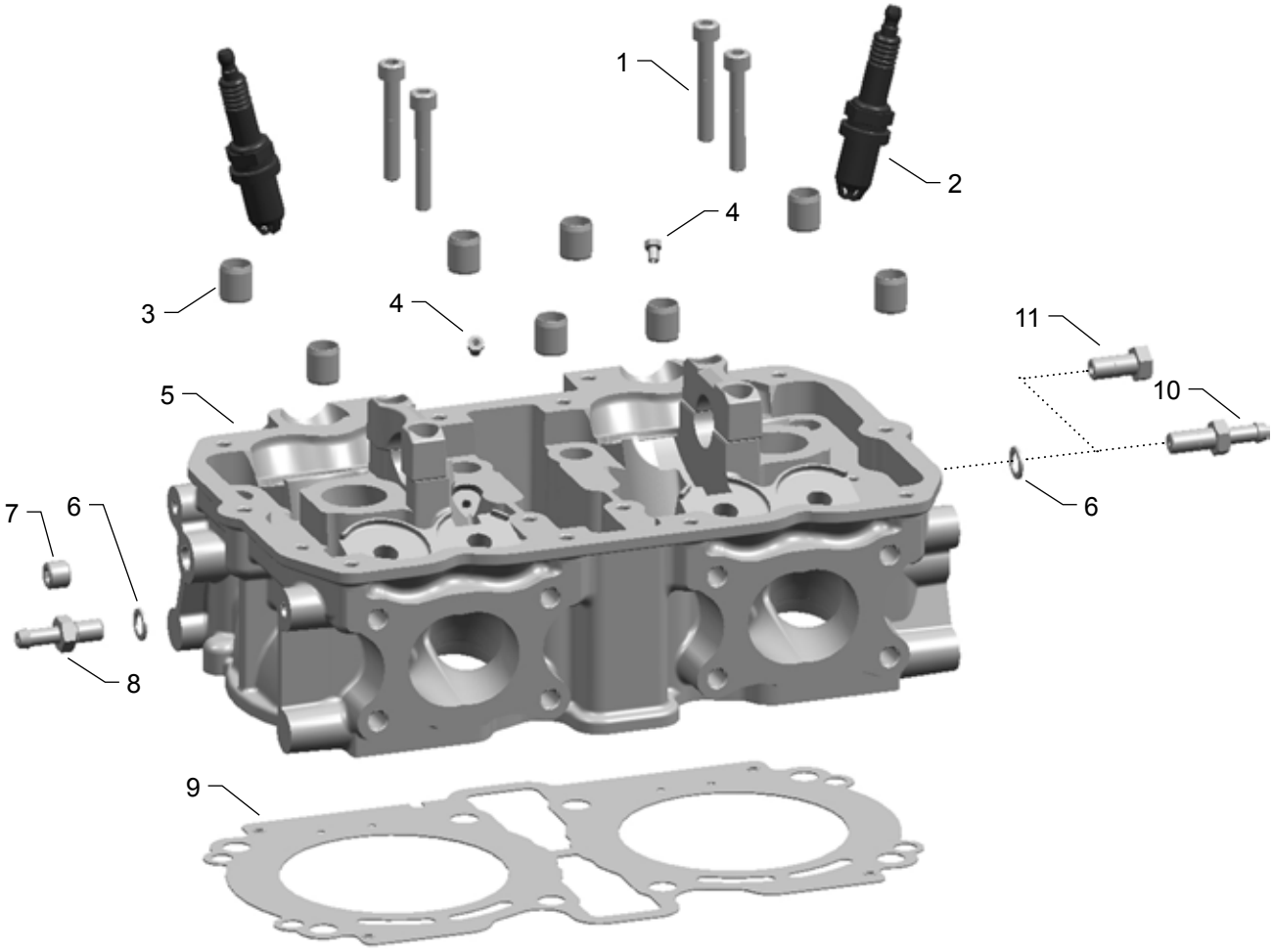
030 Cylinder Head — 02 Rocker Arms



Pos.	Part No	Description		QTY
1	101034	Nut	M10x1.25 10.9	8
2	103099	Washer		8
3	102023	Rocker Arm Short		2
4	102024	Rocker Arm Long		2
5	100605	Bolt	M6x20 10.9	4
6	100080	Rocker Axle		4
7	101973	Rocker Arm Support 1		2
8	101974	Rocker Arm Support 2		2

030 Cylinder Head

03 Cylinder Head



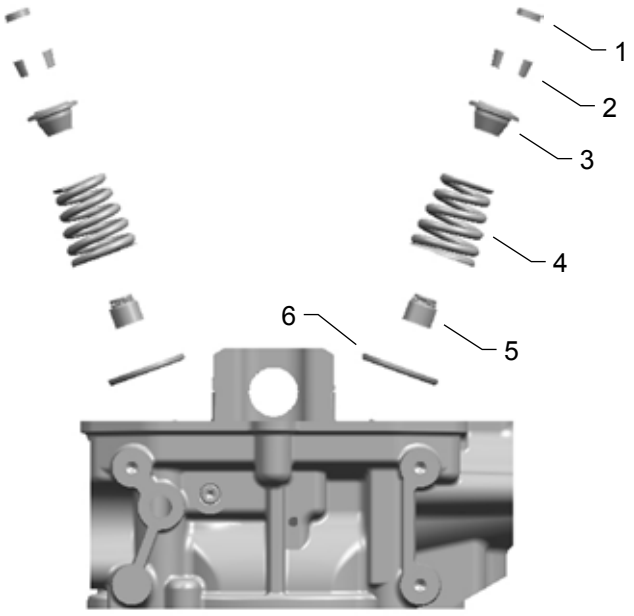
Quod vide chapter 910 Repair Kits

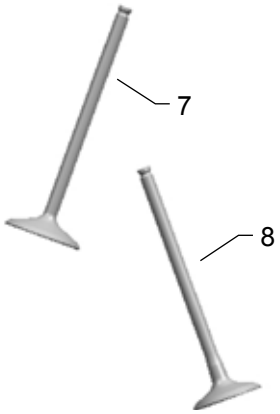
Pos.	Part No	Description		QTY
1	100514	Bolt	M6x40 10.9	4
2	*	Spark Plug	RC7PYCBX	2
3	100228	Sleeve		8
4	100094	Welch Plug		2
5	104249	Cylinder Head incl. Pos. 1, 4, 6, 7, 8, 10		1
6	100587	Seal	8x12x1 Al	2
7	102992	Plug		1
8	400920	Fitting (total lenght 33mm) M8x1x12		1
9	101445	Cylinder Head Gasket		1

Pos.	Part No	Description		QTY
Depending on delivery status Pos. 10 or Pos. 11				
10	401990	Fitting (total lenght 38mm) M8x1x17		1
11	100572	Banjo Bolt	M8x1	1

* See Chapter Engine Management System

030 Cylinder Head 04 Valves





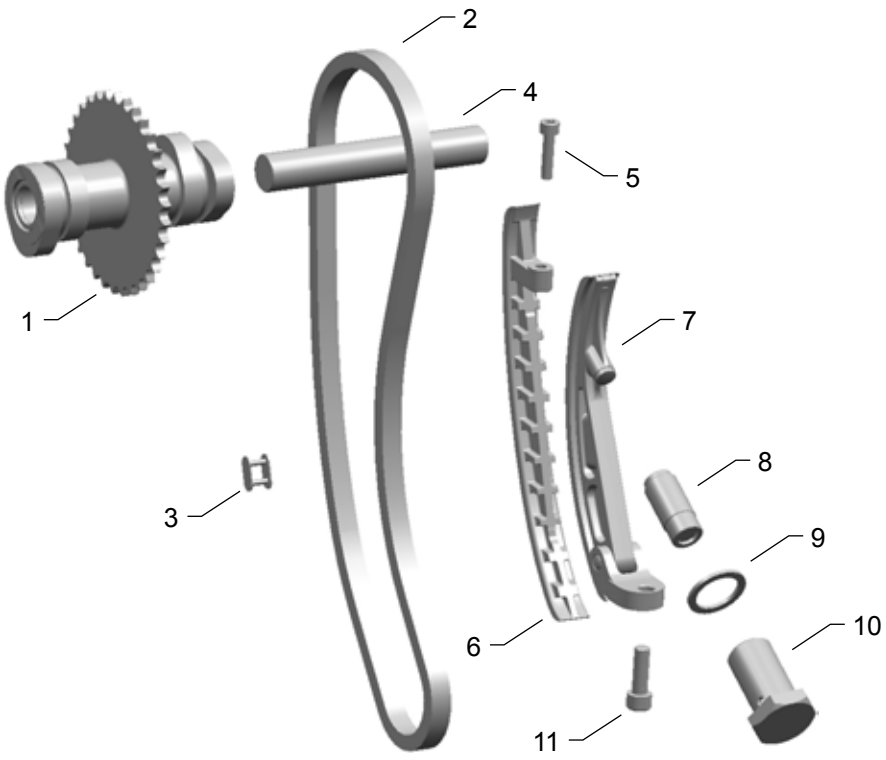
Pos.	Part No	Description	QTY
1	*	Shim	8
2	100129	Collet Valve	16
3	102316	Spring Cup	8
4	100081	Valve Spring	8
5	100658	Valve Stem Seal	8
6	100262	Spring Pad	8
7	102542	Intake Valve	4
8	102327	Exhaust Valve	4

Valve Adjustment Shim (8 parts per bag)

Part No	Description		QTY
102043	Shim	10x2.50	1
102044	Shim	10x2.55	1
102045	Shim	10x2.60	1
102046	Shim	10x2.65	1
102047	Shim	10x2.70	1
102048	Shim	10x2.75	1
102049	Shim	10x2.80	1
102050	Shim	10x2.85	1
102051	Shim	10x2.90	1
102029	Shim	10x2.95	1
102030	Shim	10x3.00	1
102052	Shim	10x3.05	1
102031	Shim	10x3.10	1
102032	Shim	10x3.15	1
102033	Shim	10x3.20	1
102034	Shim	10x3.25	1
102053	Shim	10x3.30	1
102035	Shim	10x3.35	1
102036	Shim	10x3.40	1
102037	Shim	10x3.45	1
102038	Shim	10x3.50	1
102039	Shim	10x3.55	1
102040	Shim	10x3.60	1
102041	Shim	10x3.65	1
102042	Shim	10x3.70	1

* See Table Valve Adjustment Shim

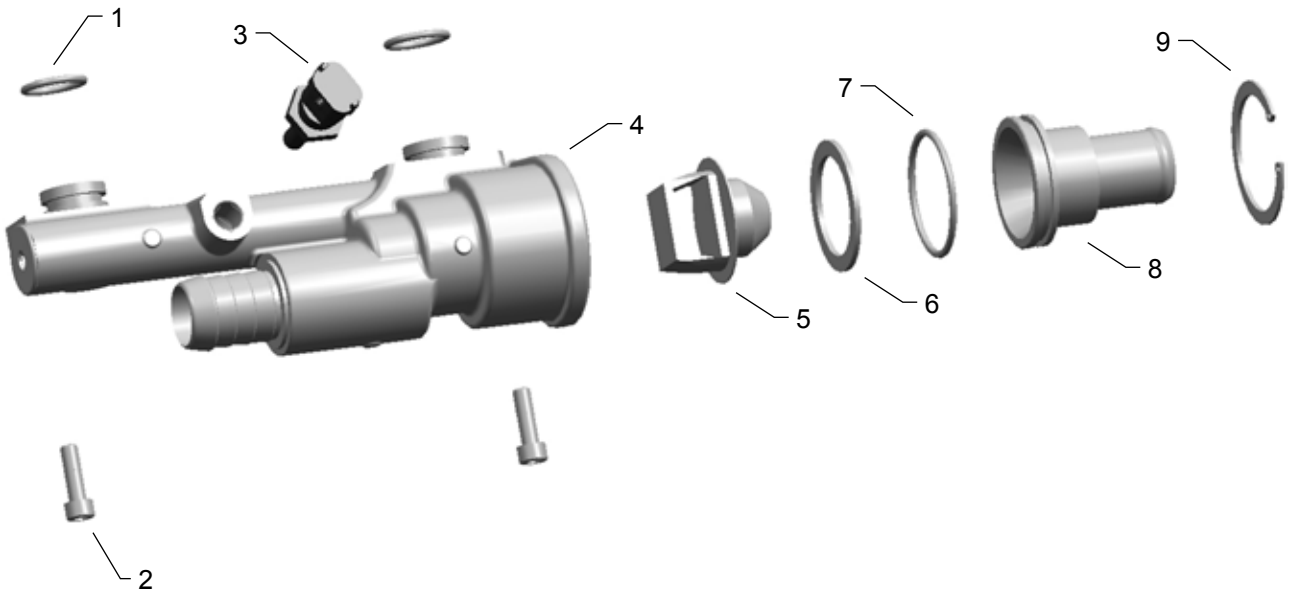
040 Valve Train



Pos.	Part No	Description		QTY
1	101921	Camshaft		1
2	100116	Timing Chain incl. Link		1
3	100557	Chain Link, Single		1
4	100078	Camshaft Axle		1
5	100502	Bolt	M6x25 8.8	1
6	100069	Chain Rail		1
7	102456	Chain Guide		1
8	100079	Chain Tensioner		1
9	100436	Seal	24x32x2 Al	1
10	100337	Plug		1

Pos.	Part No	Description		QTY
11	100832	Bolt	M8x25 10.9	1

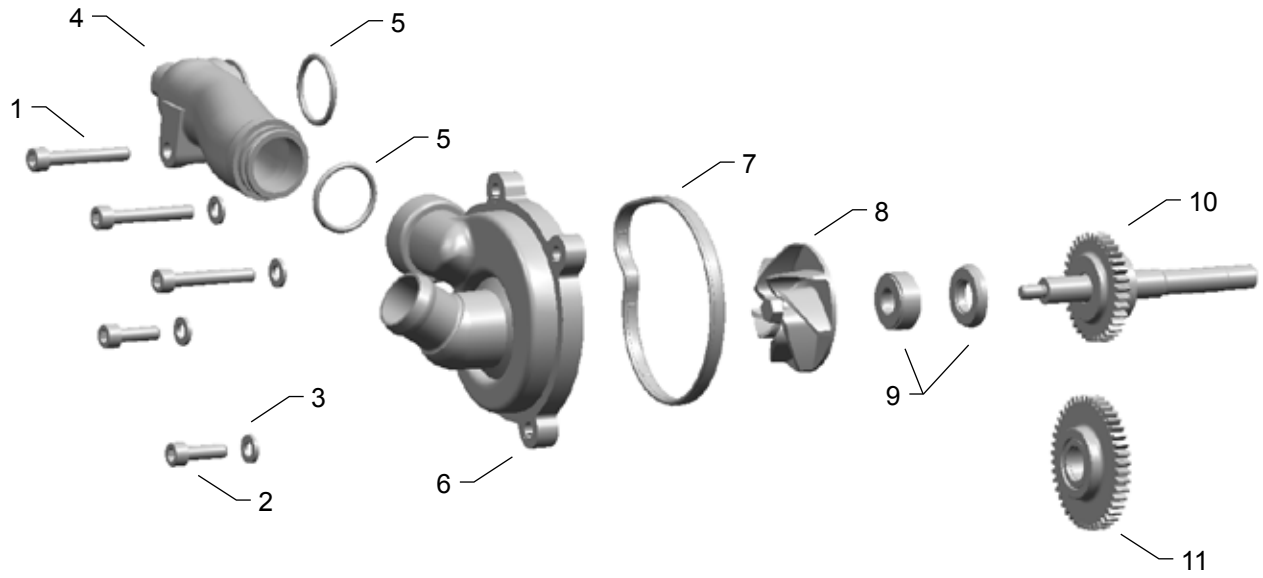
050 Cooling System — 01 Water Manifold



Pos.	Part No	Description	QTY
1	100517	O-Ring	2
2	100501	Bolt M6x20 8.8	2
3	*	Sensor Coolant Temperature	1
4	101076	Water Manifold	1
5	402430	Thermostat	1
6	401279	Distance Washer	1
7	100516	O-Ring	1
8	101253	Fitting	1
9	100294	Circleclip	1

* See Chapter Engine Management System

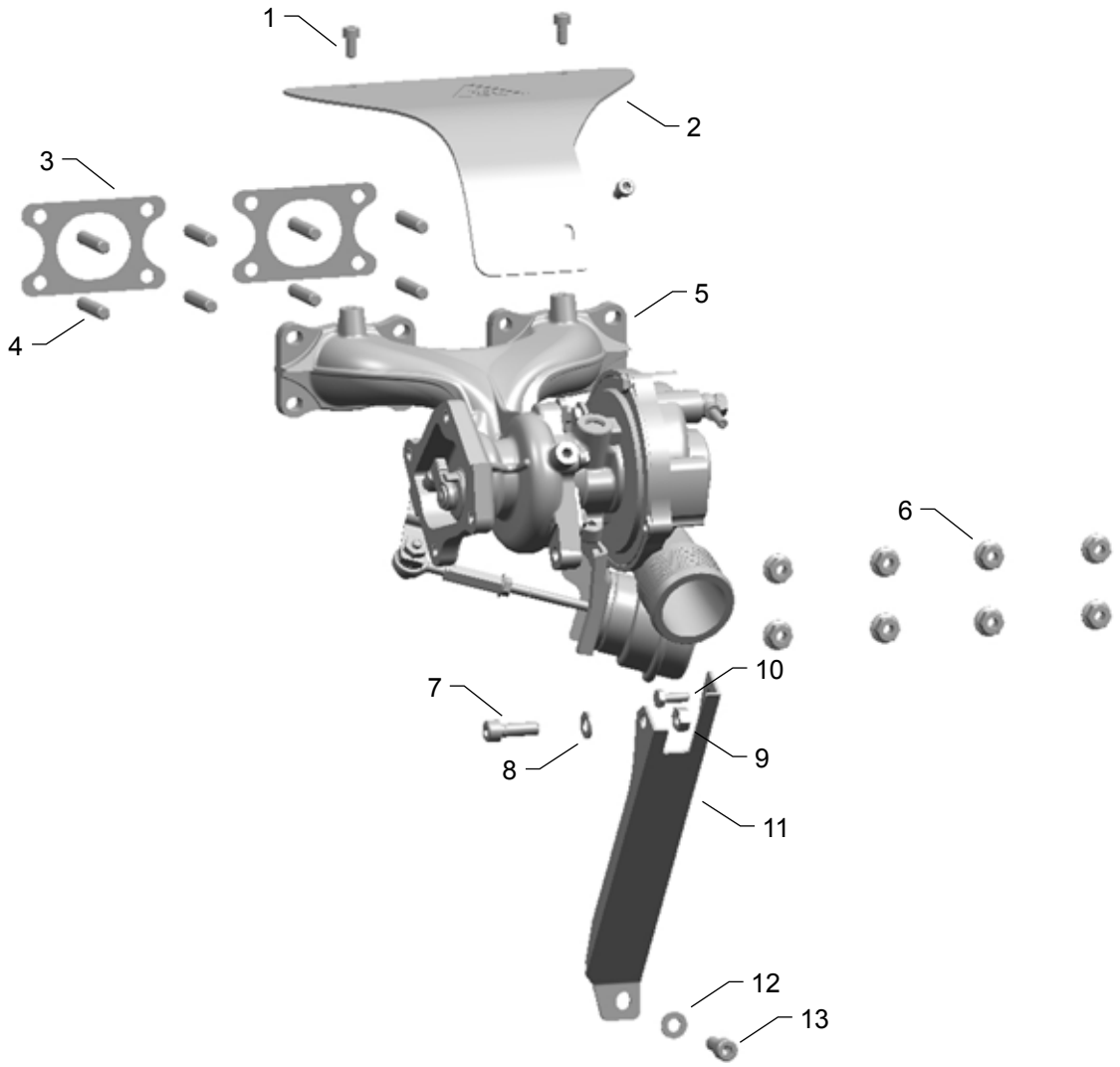
050 Cooling System — 02 Water Pump



Pos.	Part No	Description		QTY
1	100826	Bolt	M6x40	3
2	100501	Bolt	M6x20 8.8	2
3	100448	Washer		4
4	102903	Water Tube		1
5	102454	O-Ring		2
6	102194	Water Pump Cover incl. Pos. 7		1
7	102427	Gasket		1
8	400180	Impeller Type 2		1
9	103743	Sealing Kit		1
10	102948	Water Pump Axle		1

Pos.	Part No	Description	QTY
11	102870	Intermediate Gear Water Pump	1

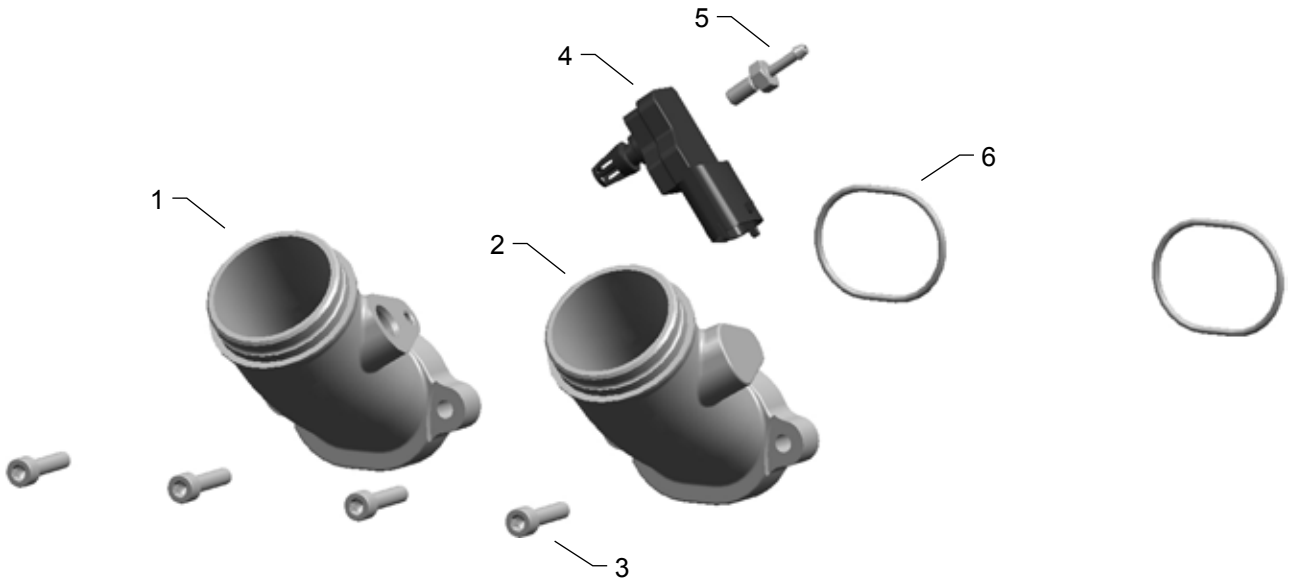
060 Turbocharging



Pos.	Part No	Description		QTY
1	401923	Bolt	M6x12	3
2	102845	Heat Shield		1
3	101446	Exhaust Gasket		2
4	102453	Stud	M8x38 8.8	8
5	400937	Turbocharger		1
6	100737	Nut	M8	8
7	102490	Bolt	M8x25	1
8	100547	Washer		1
9	101651	Nut	M8	1
10	101131	Bolt	M6x16	1

Pos.	Part No	Description		QTY
11	103006	Turbocharger Bracket		1
12	100468	Washer		1
13	101373	Bolt	M8x20 8.8	1

070 Intake Area



Pos.	Part No	Description		QTY
1	402558	Intake Fitting		1
2	402559	Intake Fitting		1
3	100502	Bolt	M6x25 8.8	4
4	*	Pressure Sensor		1
5	102533	Fitting		1
6	102651	O-Ring		2

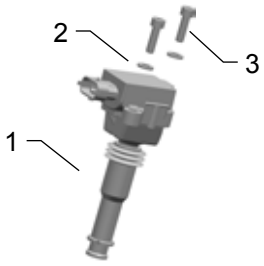
* See Chapter Engine Management System

080 Engine Management System



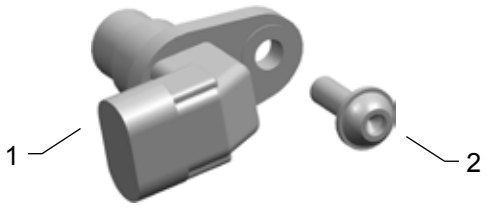
See Chapter Cylinder Head

Pos.	Part No	Description		QTY
1	104258	Spark Plug	RC7PYCBX	1



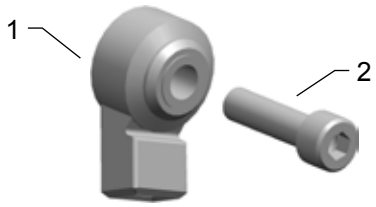
See Chapter Cylinder Head

Pos.	Part No	Description		QTY
1	100141	Ignition Coil		2
2	100448	Washer		4
3	100501	Bolt	M6x20 8.8	4



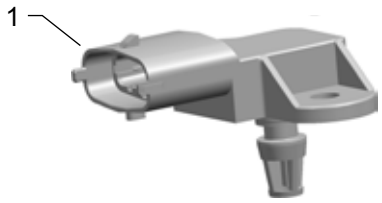
See Chapter Cylinder Head

Pos.	Part No	Description		QTY
1	100031	Sensor Camshaft		1
2	102021	Bolt	6x18	1



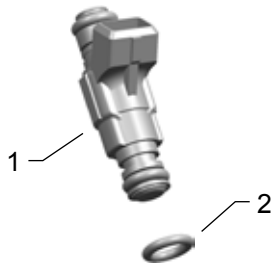
See Chapter Crankcase

Pos.	Part No	Description		QTY
1	100442	Knock Sensor		1
2	100538	Bolt	M8x30 8.8	1



See Chapter Intake Area

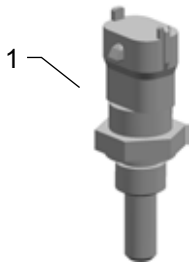
Pos.	Part No	Description	QTY
1	100029	Pressure Sensor	1



See Chapter Fuel Unit

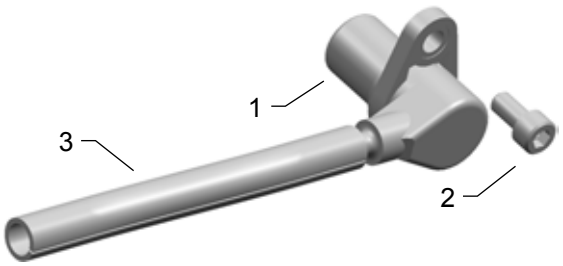
Pos.	Part No	Description	QTY
1	102954	Injector incl. Pos. 2	2
2	100708	O-Ring	2

080 Engine Management System



See Chapter Cooling System

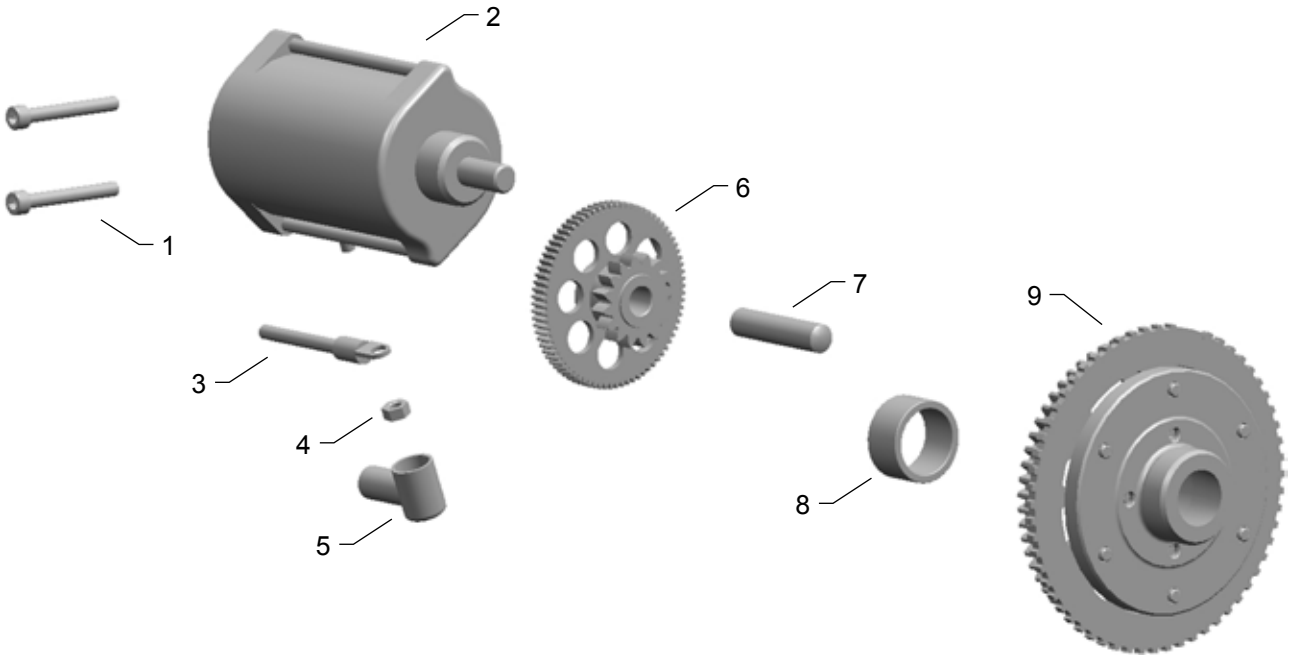
Pos.	Part No	Description	QTY
1	100024	Sensor Coolant Temperature	1



See Chapter Crankcase

Pos.	Part No	Description		QTY
1	100032	Sensor Crankshaft		1
2	101736	Bolt	M6x12	1
3	100831	Conduit		1

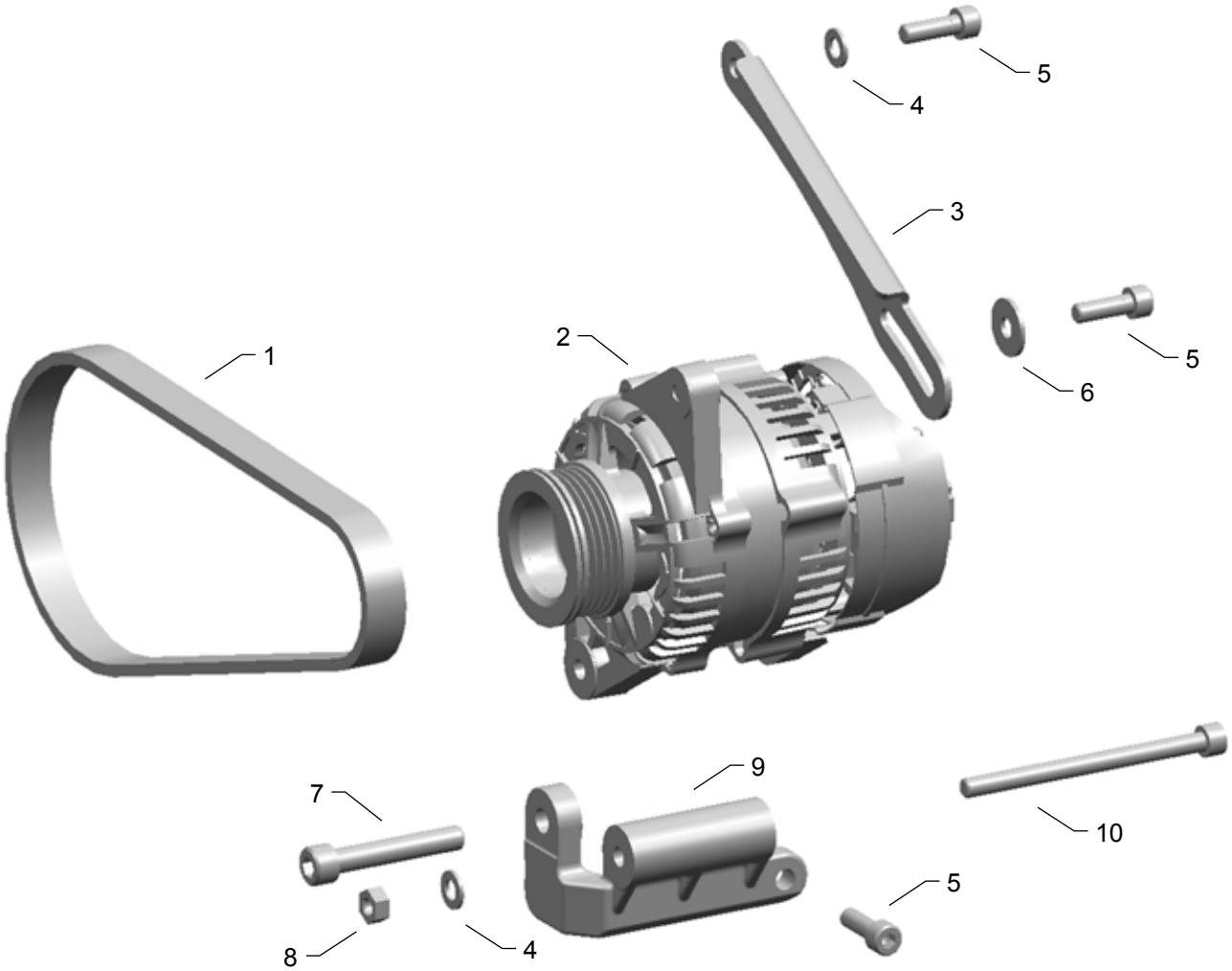
090 Starter, Generator 01 Starter



Pos.	Part No	Description		QTY
1	100545	Bolt	M6x50 8.8	2
2	100151	Starter		1
3	102263	Starter Lead		1
4	100835	Nut	M6	1
5	100388	Rubber Gromet		1
6	101261	Gear		1
7	101117	Axle		1
8	100565	Neadle Bearing		1
9	401427	Overrun		1

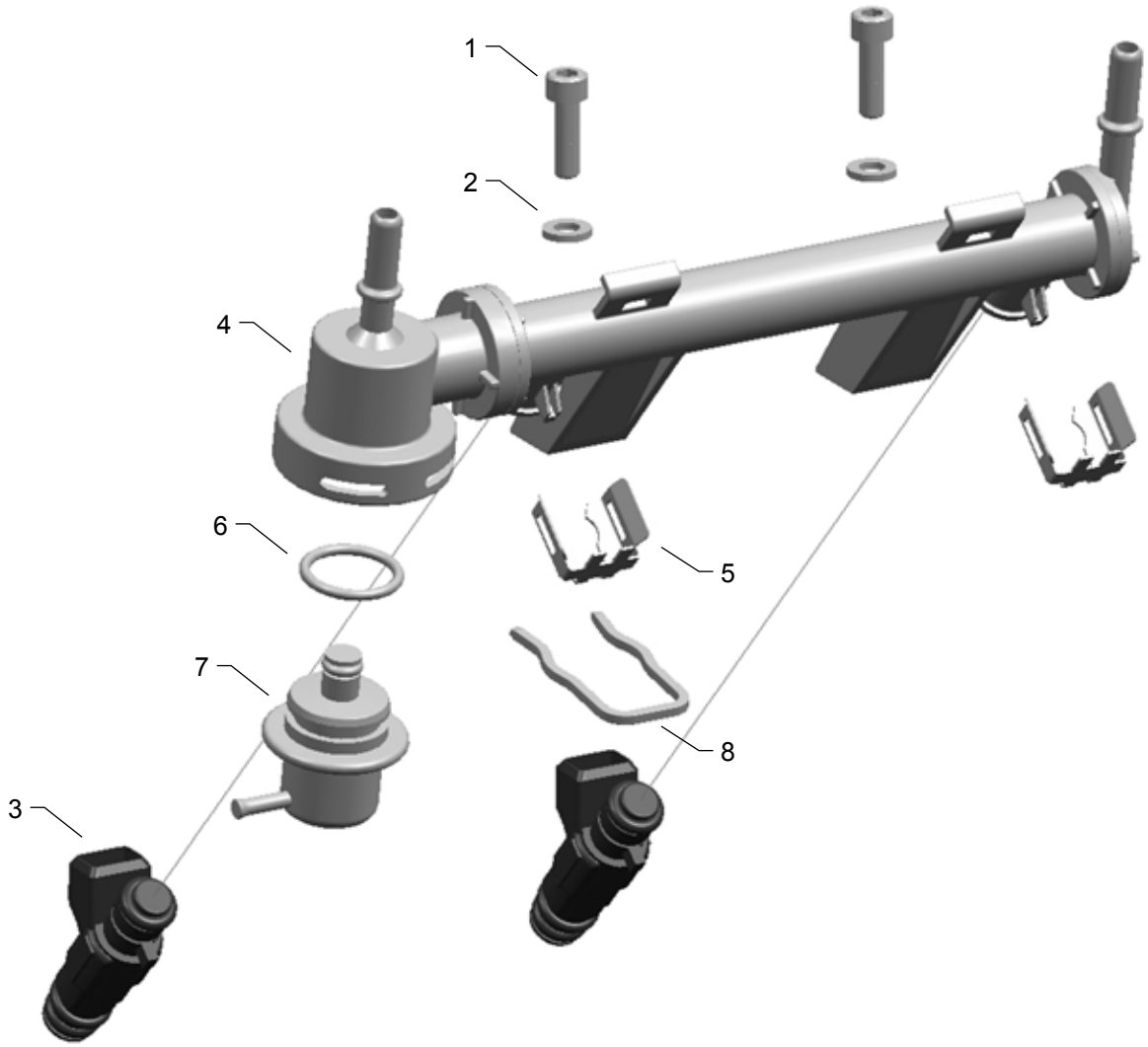
090 Starter, Generator

02 Generator



Pos.	Part No	Description		QTY
1	103088	Belt		1
2	402201	Alternator		1
3	401192	Clamping Arm		1
4	100468	Washer		2
5	102490	Bolt	M8x25	3
6	101924	Washer		1
7	100525	Bolt	M10x60 8.8	1
8	102481	Nut	M8	1
9	101090	Alternator Bracket		1
10	102478	Bolt	M8x110 8.8	1

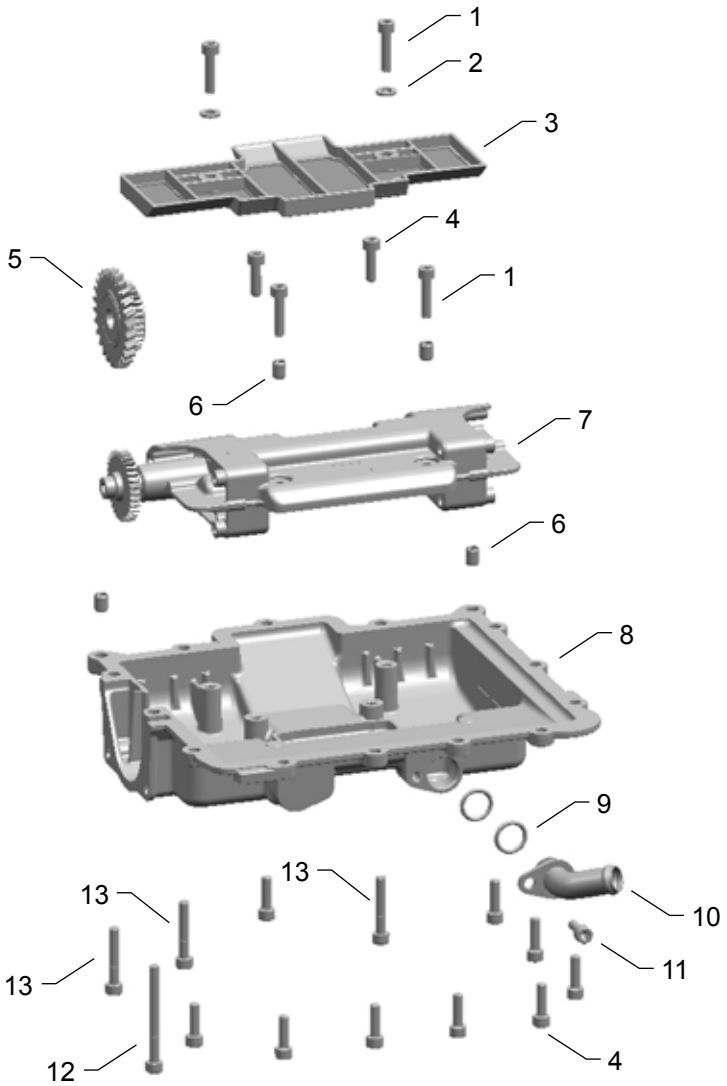
100 Fuel Unit



Pos.	Part No	Description	QTY
1	100447	Bolt M6x20	2
2	100448	Washer	2
3	*	Injector	2
4	103037	Fuel Rail	1
5	100431	Locking Clip	2
6	102927	O-Ring	1
7	103041	Fuel Pressure Regulator incl. Pos. 6	1
8	100364	Locking Clip	1

* See Chapter Engine Management System

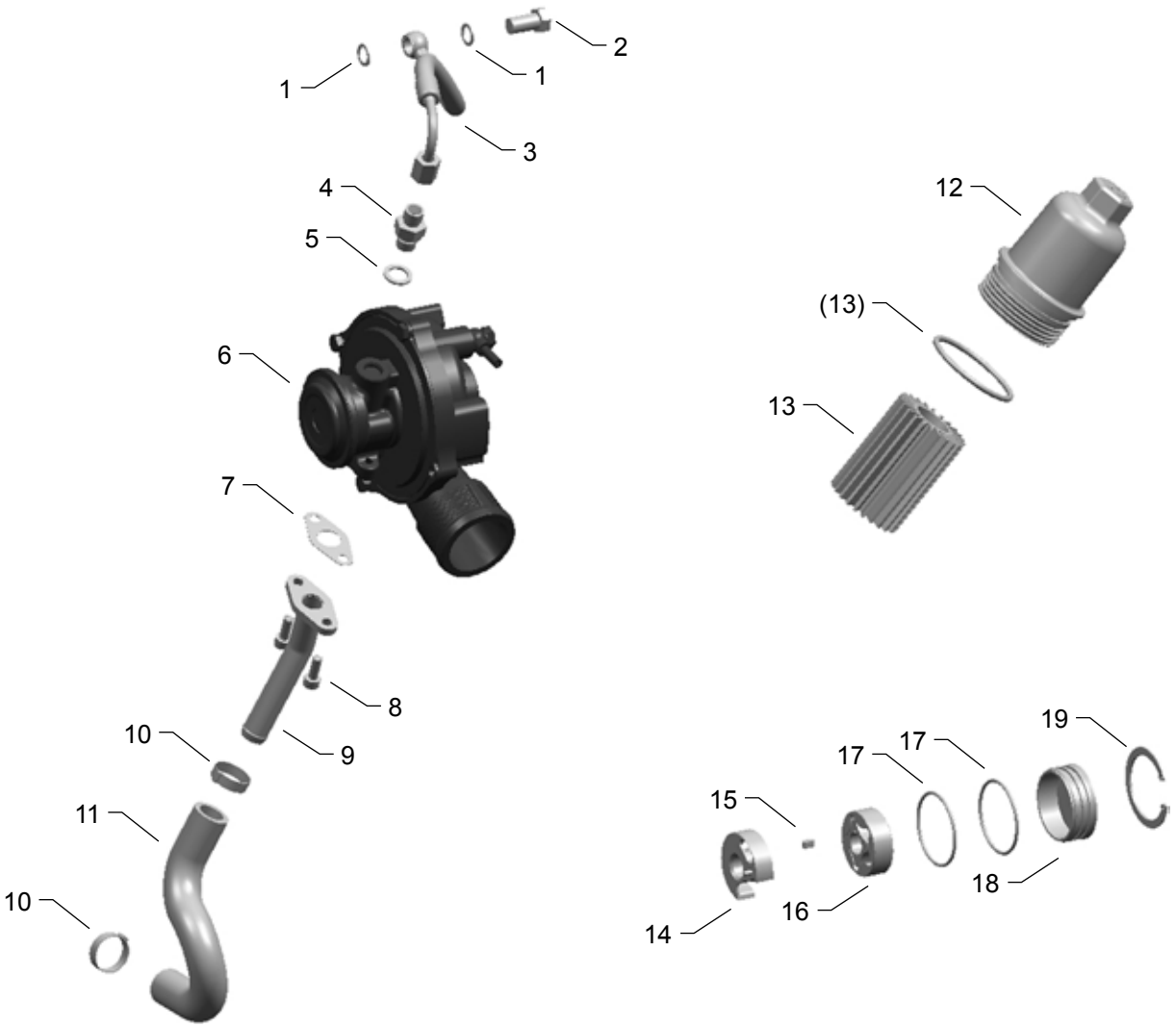
110 Lubrication System — 01 Dry Sump



Pos.	Part No	Description		QTY
1	100502	Bolt	M6x25 8.8	4
2	100448	Washer		2
3	100195	Oil Screen		1
4	100501	Bolt	M6x20 8.8	11
5	401428	Intermediate Gear Suction Pump		1
6	100280	Sleeve		4
7	102225	Suction Pump		1
8	102243	Suction Pump Cover		1
9	100491	O-Ring		2
10	102864	Connector		1

Pos.	Part No	Description		QTY
11	100507	Bolt	M6x16 8.8	1
12	100506	Bolt	M6x60 8.8	1
13	100505	Bolt	M6x35 8.8	3

110 Lubrication System — 02 Turbocharger, Oil Filter, Oil Pump

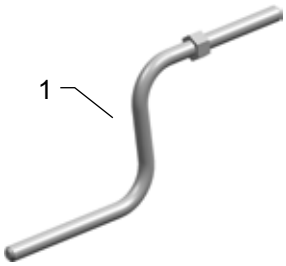


Pos.	Part No	Description		QTY
1	101107	Seal	10x14x1 Al	2
2	100085	Banjo Bolt	M10x1	1
3	101953	Hose		1
4	100664	Fitting		1
5	100449	Seal	12x18x1.5 Al	1
6	*	Turbocharger		1
7	101917	Gasket		1
8	100507	Bolt	M6x16 8.8	2
9	101916	Flange		1
10	100471	Hose Clamp	16-27/9	2

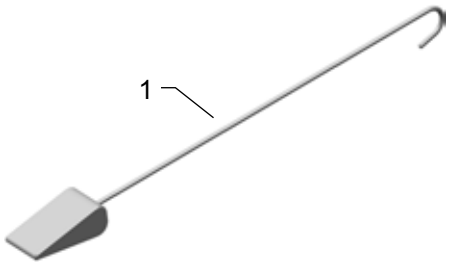
Pos.	Part No	Description	QTY
11	103032	Hose	1
12	401243	Oil Filter Cover incl. Pos. 13	1
13	103563	Oil Filter	1
14	100137	Timing Insert	1
15	100293	Key	1
16	100275	Oil Pump	1
17	102398	O-Ring	2
18	100104	Oil Pump Cover	1
19	100294	Circleclip	1

* See Chapter Turbocharging

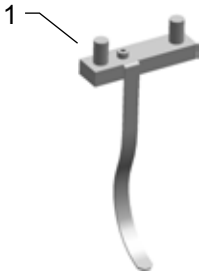
900 Special Tools



Pos.	Part No	Description	QTY
1	401386	Hand Crank	1



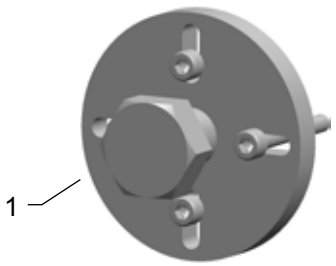
Pos.	Part No	Description	QTY
1	401370	Hook-Wedge	1



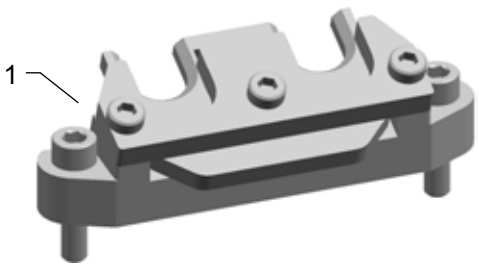
Pos.	Part No	Description	QTY
1	401401	Chain Tool	1



Pos.	Part No	Description	QTY
1	401402	Valve Installation Tool	1

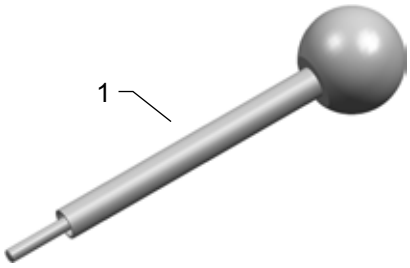


Pos.	Part No	Description	QTY
1	401355	Removal Tool	1

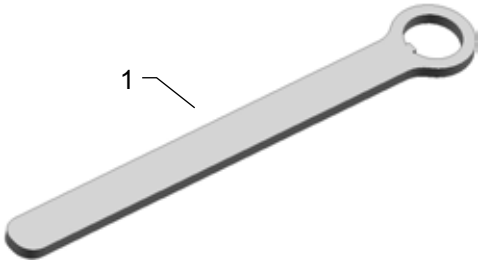


Pos.	Part No	Description	QTY
1	103330	Valve Adjustment Tool	1

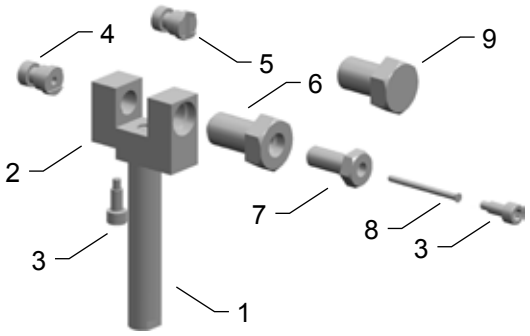
900 Special Tools



Pos.	Part No	Description	QTY
1	103609	Installation Spike Valve Stem Seal	1



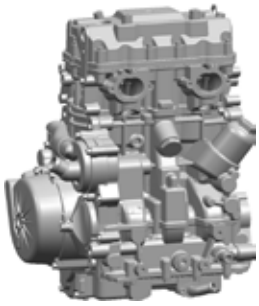
Pos.	Part No	Description	QTY
1	401356	Crankshaft Counterholder	1



Pos.	Part No	Description		QTY
1	103701	Chain Breaking Tool consisting of Pos. 2 - 9		1
2	402921	Header		1
3	401389	Bolt	M6x16 8.8	2
4	401376	Counterpart Break		1
5	401377	Counterpart Rivet		1
6	401378	Bolt	M16 12.9	1
7	401381	Bolt	M10x1 12.9	1
8	401383	Spike		1
9	401391	Bolt	M16 12.9	1

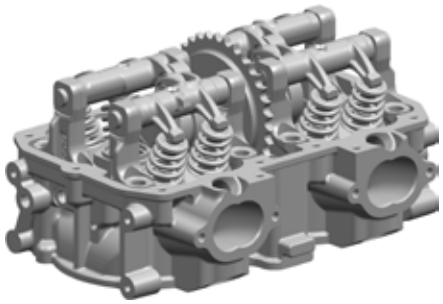
910 Repair Kits





Part No	Description	QTY
103320	**Long Block Type 2**	**1**

Long block with a black valve cover. Sub system parts like starter and fuel rail are not supplied.



Part No	Description		QTY
103334	**Cylinder Head**		**1**
The Repair Kit includes:			
104249	Cylinder Head		1
100514	Bolt	M6x40 10.9	4
100094	Welch Plug		2
100228	Sleeve		8
101973	Rocker Arm Support 1		2
101974	Rocker Arm Support 2		2
100605	Bolt	M6x20 10.9	4
102327	Exhaust Valve		4
102542	Intake Valve		4
100262	Spring Pad		8
100081	Valve Spring		8
102316	Spring Cup		8
100129	Collet Valve		16
101921	Camshaft		1
100078	Camshaft Axle		1
102024	Rocker Arm Long		2
102023	Rocker Arm Short		2
100080	Rocker Axle		4
102992	Plug		1
102453	Stud	M8x38 8.8	8
400920	Fitting (total lenght 33mm)	M8x1x12	1
401990	Fitting (total lenght 38mm)	M8x1x17	1
100587	Seal	8x12x1 Al	2

Overview of Revisions

New Revision Status	Revision Date	Chapter	Pos.	Modification	Notes
Rev1.1	20.08.2007	080 Engine Management System		Sensor Crankshaft currently including conduit	
Rev1.1	20.08.2007	010 Crankcase 02 Front Cover	10	Engine Bracket 400786 replaced by 400661	Parts in stock can be used
Rev1.1	20.08.2007	010 Crankcase 02 Front Cover	10	Front Cover 102988 replaced by 103635	Parts in stock can be used
Rev1.1	20.08.2007	030 Cylinder head 01 Valve Cover	6	Valve Cover currently including Sensor Camshaft and Valve Cover Seal	Parts in stock can be used
Rev1.1	20.08.2007	030 Cylinder head 03 Cylinder Head		Banjo Bolt 100572 replaced by Fitting 401990. The cylinder head is also concerned. 101070 replaced by 402206.	If required, parts in stock may be altered.
Rev1.1	20.08.2007	910 Repair Kits		Repair Kit 102858 replaced by 103566 (banjo Bolt replaced by Fitting)	If required, parts in stock may be altered.
Rev1.1	20.08.2007	090 Starter, Generator 02 Generator	2	Generator 400729 replaced by 402201	Parts in stock can be used
Rev1.1	20.08.2007	900 Special Tools		Chain Breaking Tool 401379 replaced by 103701	Parts in stock can be used
Rev1.1	20.08.2007			Installation Spike Valve Stem Seal 103606 is new	
Rev1.1	20.08.2007	900 Special Tools		Crankshaft Counterholder 401356 is new	
Rev1.2	14.11.2007	010 Crankcase 01 Case	4	Crankcase 103865 replaced by 104022	Parts in stock can be used for type 1.
Rev1.2	14.11.2007	010 Crankcase 01 Case	11	Fitting 102980 replaced by 401291. Please note! The Fitting is dependent on the crankcase type.	Parts in stock can be used for type 1. Spare parts for Fitting type 1 are available
Rev1.2	14.11.2007	020 Crank Drive	6	Con Rod 103359 replaced by 103974	Parts in stock can be used
Rev1.2	14.11.2007	050 Cooling System 01 Water Manifold	5	Thermostat 103575 70°C replaced by 402430 82°C	Weber Automotive GmbH recommends to only use thermostat 402430 82°C.
Rev1.2	14.11.2007	910 Repair Kits		Long Blocks 103320 are only available for Crankcase Type 2. For more information see Chapter 010 Crankcase 01 Case.	
Rev1.3	14.05.2008	030 Cylinder head 03 Cylinder head	5	Cylinder Head 402206 replaced by 104249	Parts in stock can be used
Rev1.3	14.05.2008	910 Repair Kits		Repair Kit Cylinder Head 103566 replaced by 103334.	Parts in stock can be used
Rev1.3	14.05.2008	900 Special Tools		Chain Breaking Tool 103701: Header 402921 is new	
Rev1.3	14.05.2008	070 Intake Area	1	Intake Fitting 101932 replaced by 402558	Parts in stock can be used

Overview of Revisions

New Revision Status	Revision Date	Chapter	Pos.	Modification	Notes
Rev1.3	14.05.2008	070 Intake Area	2	Intake Fitting 101933 replaced by 402559	Parts in stock can be used
Rev1.4	28.01.2009	080 Engine Management System		Spark Plug 103763 replaced by 104258.	Spark plugs aren‘t modified. Only a new box.
Rev1.4	28.01.2009	030 Cylinder head 01 Valve Cover	10	Engine Badge 402159 is new	

Terminology

A

Alternator 17
Alternator Bracket 17

B

Balance Shaft 4
Bearing Shell Balance Shaft 4
Belt 17

C

Camshaft 9
Camshaft Axle 9
Chain Breaking Tool 22
Chain Guide 9
Chain Link 9
Chain Rail 9
Chain Tensioner 9
Chain Tool 21
Clamping Arm 17
Collet Valve 8
Con-Rod Bolt 4
Con Rod 4
Con Rod Bearing 4
Crankcase 1
Crankshaft 4
Crankshaft Counterholder 22
Cylinder Head 7
Cylinder Head Gasket 7

E

Engine Bracket Front 3
Exhaust Gasket 12
Exhaust Valve 8

F

Front Cover 3
Fuel Pressure Regulator 18
Fuel Rail 18

G

Gear 16
Generator Cover 3

H

Hand Crank 21
Heat Shield 12
Hook-Wedge 21

I

Ignition Coil 14
Impeller 11
Injector 14
Installation Spike Valve Stem Seal 22
Intake Fitting 13
Intake Valve 8

K

Knock Sensor 14

M

Main Bearing 4

O

Oil Filter 20
Oil Filter Cover 20
Oil Pump 20
Oil Pump Cover 20
Oil Screen 19
Oil Seal 1, 3
Overrun 16

P

Piston 4
Pressure Sensor 14
Pulley 4

R

Removal Tool 21
Repair Kit Cylinder Head 23
Repair Kit Long Block 23
Rocker Arm 6
Rocker Arm Support 6
Rocker Axle 6

S

Sensor Camshaft 14
Sensor Coolant Temperature 15
Sensor Crankshaft 15
Shim 8
Spark Plug 14
Spring Cup 8
Spring Pad 8
Starter 16
Starter Lead 16
Suction Pump 19
Suction Pump Cover 19

T

Thermostat 10
Tie Rod 1
Tie Rod Sleeve 1
Timing Chain 9
Timing Insert 20
Turbocharger 12
Turbocharger Bracket 12

V

Valve Adjustment Tool 21
Valve Cover 5
Valve Cover Seal 5
Valve Installation Tool 21
Valve Spring 8
Valve Steam Seal 8

Terminology

W

Water Manifold 10
Water Pump Axle 11
Water Pump Cover 11
Welch Plug 1, 7

Manufacturer: Weber Automotive GmbH
Address: Otto-Lilienthal-Str.5
88677 Markdorf
Germany
Internet: www.weber-automotive.com