

HR81486U
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HR81486U
2006/08/31

The information given within this parts book was correct at the time of printing and is subject to change without notice. Always refer to your local Perkins outlet for the latest information. Only fully trained personnel should carry out servicing of engines. Before working on any engine always refer to the correct user service and maintenance manual.

Always refer to your local Perkins outlet before purchasing any parts

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Product: 2006 Takeuchi TW60 Wheel Loader Engine Workshop Part Manual
Full Download: <https://www.arepairmanual.com/downloads/2006-takeuchi-tw60-wheel-loader-engine-workshop-part-manual/>

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Contents

1.	Introduction	Pg. 4
2.	How To Use Your Parts Book	Pg. 4
3.	Engine Breakdown	Pg. 5
4.	Symbol Descriptions	Pg. 9
5.	Parts Lists & Illustrations	Pg. 11
6.	Parts Index	Pg. 128

Introduction

The build list of your engine, found on the front page of this parts book, provides a unique reference to the components fitted to your engine; therefore this parts book is only applicable to this particular engine

Always quote your build list and engine serial number when contacting your Perkins outlet.

How to use your Parts Book

This parts book has been designed to provide you with all the information you need to identify parts to service your engine. There are several features within the book to make it easy to find the parts you require.

Front Page

This lists your build list number and the date of publication of this book

Symbol Descriptions

Provides a quick reference guide to the symbols used within the book.

Engine Breakdown

Use this to identify all the major sections of your engine and the relevant pages within the book.

Parts Lists & Illustrations

This section shows each major section of your engine broken down into individual part numbers along with an associated illustration for identifying the parts you require.

The illustrations used in this parts book are representational only and should only be used for identification purposes.

For fitting instructions please refer to your engine Service Manual.

Parts Index

Using either the part number or description of the part you require this section will help you locate the page within the **Parts Lists & Illustrations** section where the part appears.

Section	Page
Long Engine ACEH0829	11
Cylinder Block A6CH	13
Crankshaft & Bearings A6CH	15
Pistons & Rings A6CH	17
Cylinder Head Assembly B6CH	19
Rocker Shaft Assembly B6CH	21
Timing Case C6MH	23
Timing Case C6MH	25
Timing Case C6MH	27
Stop Solenoid Control C6MH	29
Camshaft & Gears C6MH	31
Timing Case C6VH	33
Timing Case C6VH	35

Section	Page
Timing Case C6VH	37
Timing Case C6VH	39
Camshaft & Gears C6VH	41
Fuel Injection Pump D6AH	43
High Pressure Fuel Pipes D6AH	45
Atomisers D6AH	47
Fuel Injection Pump D6MH	49
High Pressure Fuel Pipes D6MH	51
Atomisers D6MH	53
Fuel Injection Pump D6QH	55
High Pressure Fuel Pipes D6QH	57
Atomisers D6QH	59
Cold Start System E6AK	61

Engine Breakdown

Section	Page
Fan Drive F4DK	63
Water Pump F6XH	65
Water Pump F6XH	67
Oil Pump & Connections F6XH	69
Pulleys F8CH	71
Sump G6BH	73
Oil Filter G6BH	75
Oil Leak-Off Pipes G6BH	77
Rotor G6BH	79
Fuel Filter H6FH	81
Pipes H6FH	83
Lift Pump H7CK	85
Back End Group J6LK	87

Section	Page
Starter Group K6EK	89
Starter Group K6EK	91
Exhaust Manifold L6AH	93
Alternator N6GH	95
Engine Lifting Eyes O6BH	97
Auxiliary Drive P6AH	99
Instrumentation Q6AH	101
Instrumentation Q6QH	103
Inlet Manifold S6EH	105
Turbocharger S6EH	107
Exhaust Z1AK	109
Electrical Z3AH	111

Section	Page
Electrical Z3FH	113
Electrical Z3PK	115
Miscellaneous Z3YK	117
Fan Z5DH	119
Miscellaneous Z6AK	121
Miscellaneous Z6AK	123
Miscellaneous Z6CK	125
Miscellaneous Z6DK	127

Engine Breakdown

Symbols and Notes

Symbol	Description
	From Engine Number
	Upto Engine Number
	Repairs and Replaces
	See Appropriate Section - Reference Number
	Alternative
	Order
	Remanufactured Part
	New for Old Part
	Number of Teeth
	Thickness
	Bottom
	Top
	Left Hand
	Right Hand
	Reference for Detailed Breakdown
	Other Service Options Available
	Cylinder Number
	See History Section

ACEH0829

1

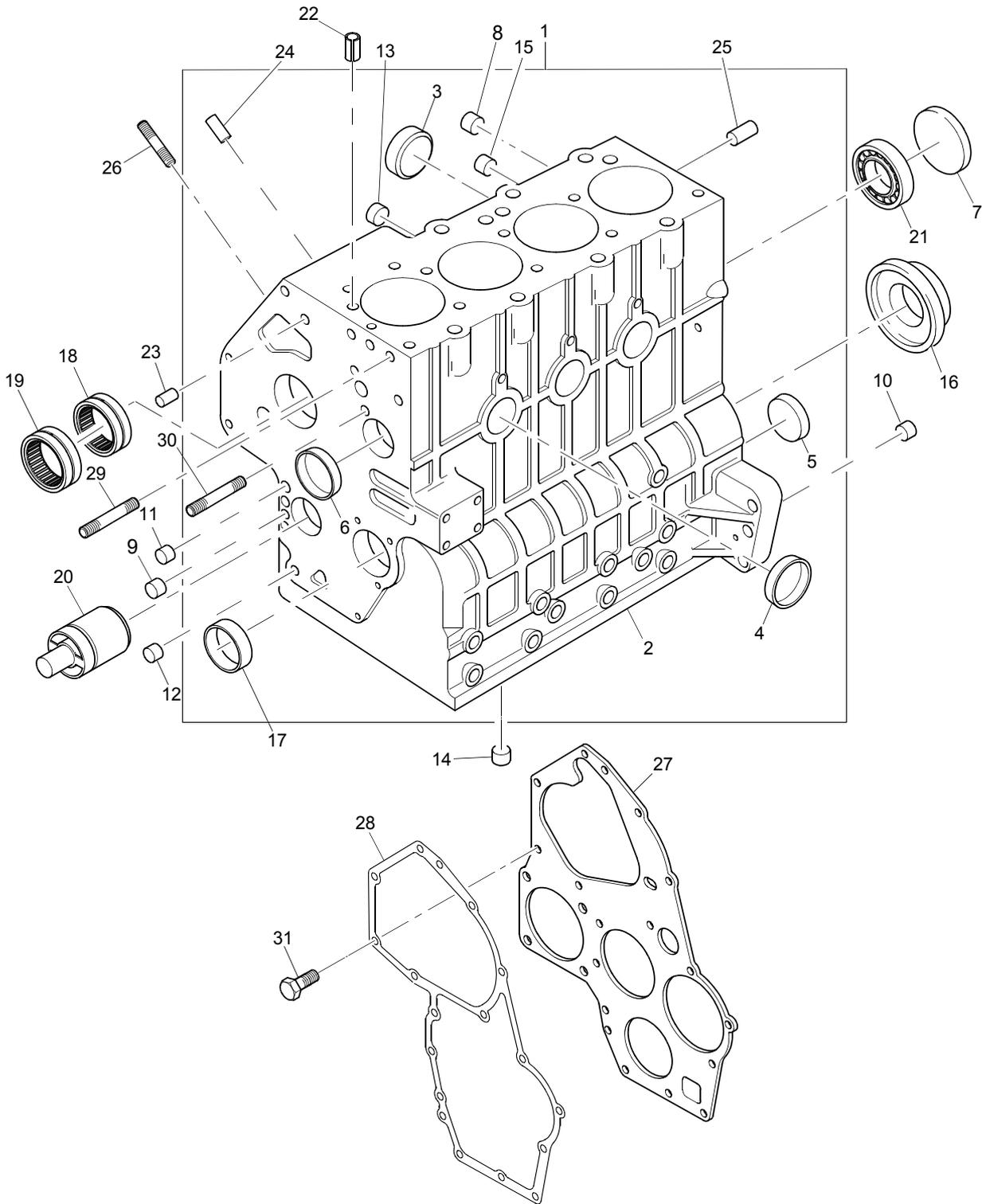
Long Engine
Moteur Long
Langer Motor
Motor Largo
Motore Completo

Long Engine	Plate A
	ACEH0829

Item	Part No.	References	Qty.	Description	Notes
1	HR30829U		1	LONG ENGINE - ASSEMBLY	(A)

Footnotes					
(A)	Order parts book HR30829UPB for details				

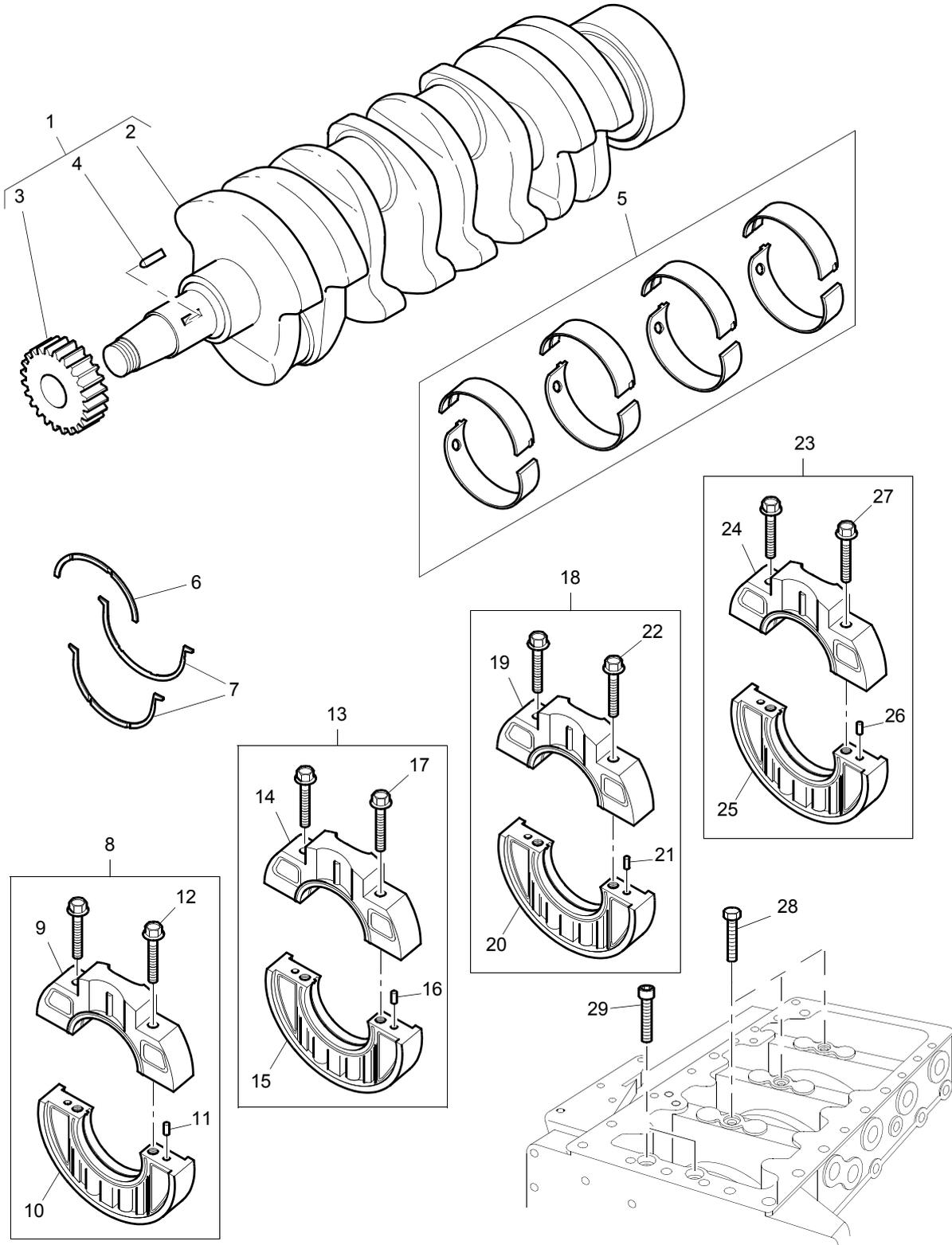
A6CH



A6CH

Item	Part No.	References	Qty.	Description	Notes
1		⇒ LONG ENGINE	1	CYLINDER BLOCK KIT	
2		⇒ LONG ENGINE	1	CYLINDER BLOCK ASSEMBLY	
3	064200025		2	PLUG	
4	064200040		3	PLUG	
5	064200040		1	PLUG	
6	064200040		1	PLUG	
7	064100045		1	PLUG	
8	198466010		3	PLUG	
9	198466010		1	PLUG	
10	198466010		1	PLUG	
11	198466020		1	PLUG	
12	198466020		1	PLUG	
13	198466940		3	PLUG	
14	198466920		1	PLUG	
15	198466920		1	PLUG	
16	050209083		1	SEAL - REAR END OIL	
17	198517222	 a.	1	BUSH	
18	042309017		1	NEEDLE BEARING	
19	042309018		1	NEEDLE BEARING	
20	165296132		1	SHAFT	
21	040106203		1	BALL BEARING	
22	030309005		2	PIN	
23	030500616		2	DOWEL	
24	030500612		1	DOWEL	
25	030501025		2	DOWEL	
26	010109441		3	STUD	
27	165166221		1	PLATE	
28	165996590		1	GASKET - TIMING CASE	
29	012110635		1	STUD	
30	012110660		1	STUD	
31	011310612		2	SCREW	
Service Options					
17	198517226	$\frac{\nabla}{\nabla}$ (-)0.25MM	1	BUSH	
17	198517229	$\frac{\nabla}{\nabla}$ (-)0.50MM	1	BUSH	
History					
a.					
17	198517550		1	BUSH	

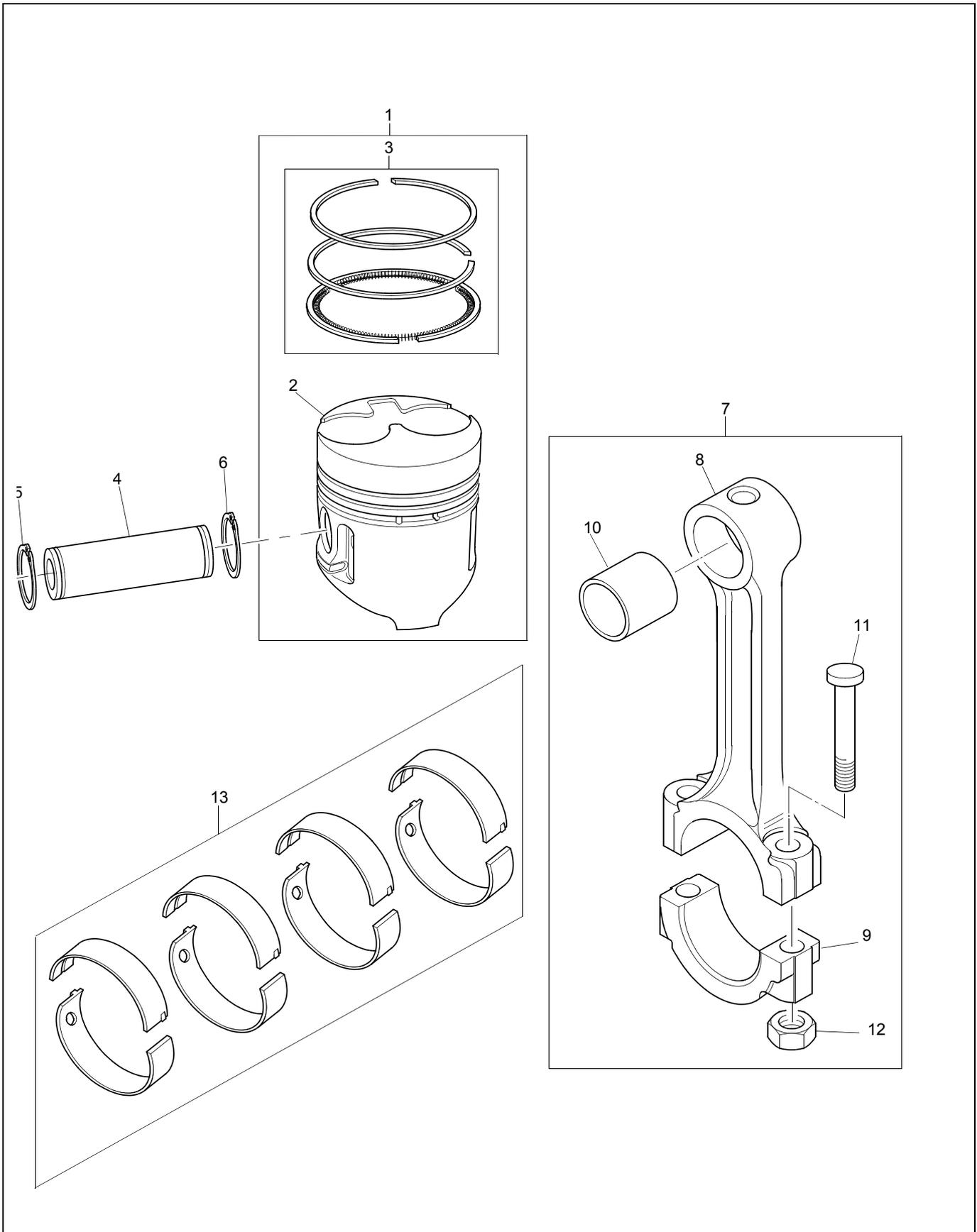
A6CH



A6CH

Item	Part No.	References	Qty.	Description	Notes
1	115256750		1	CRANKSHAFT KIT	
2		⇒ 115256750	1	CRANKSHAFT	
3	115276200		1	CRANKSHAFT GEAR	
4	030509020		1	KEY	
5	198586140		1	MAIN BEARING KIT	(A)
6	199266210		1	THRUST WASHER	
7	199266200		2	THRUST WASHER	
8	110156360	☐ 1	1	HOLDER	
9		⇒ 110156360	1	CAP	
10		⇒ 110156360	1	CAP	
11	030500612		2	DOWEL	
12	010109406		2	SCREW	
13	110156370	☐ 2	1	HOLDER	
14		⇒ 110156370	1	CAP	
15		⇒ 110156370	1	CAP	
16	030500612		2	DOWEL	
17	010109406		2	SCREW	
18	110156380	☐ 3	1	HOLDER	
19		⇒ 110156380	1	CAP	
20		⇒ 110156380	1	CAP	
21	030500612		2	DOWEL	
22	010109406		2	SCREW	
23	110156390	☐ 4	1	HOLDER	
24		⇒ 110156390	1	CAP	
25		⇒ 110156390	1	CAP	
26	030500612		2	DOWEL	
27	010109406		2	SCREW	
28	011511070		3	SCREW	
29	010700860		1	BOLT	
Service Options					
5	198586160	⅞ (-)0.50MM	1	MAIN BEARING KIT - O/S	(A)
5	198586150	⅞ (-)0.25MM	1	MAIN BEARING KIT - O/S	(A)
Footnotes					
(A)	BEARINGS ARE PRE-FINISHED				

A6CH



A6CH

Item	Part No.	References	Qty.	Description	Notes
1	115017581	 a.	1	PISTON AND RING KIT	
2		⇒ 115017581	1	PISTON	
3	115104021		1	PISTON RING KIT	
4	115326220		4	GUDGEON PIN	
5	036500028		4	CIRCLIP	
6	036500028		4	CIRCLIP	
7	115026330		4	CON ROD ASSEMBLY	
8		⇒ 115026330	1	ROD	
9		⇒ 115026330	1	CAP	
10	198517265		1	SMALL END BUSH	
11	115176140		2	CON ROD BOLT	
12	020109120		2	CON ROD NUT	
13	U5ME0011		1	BIG END BEARING KIT	(A)

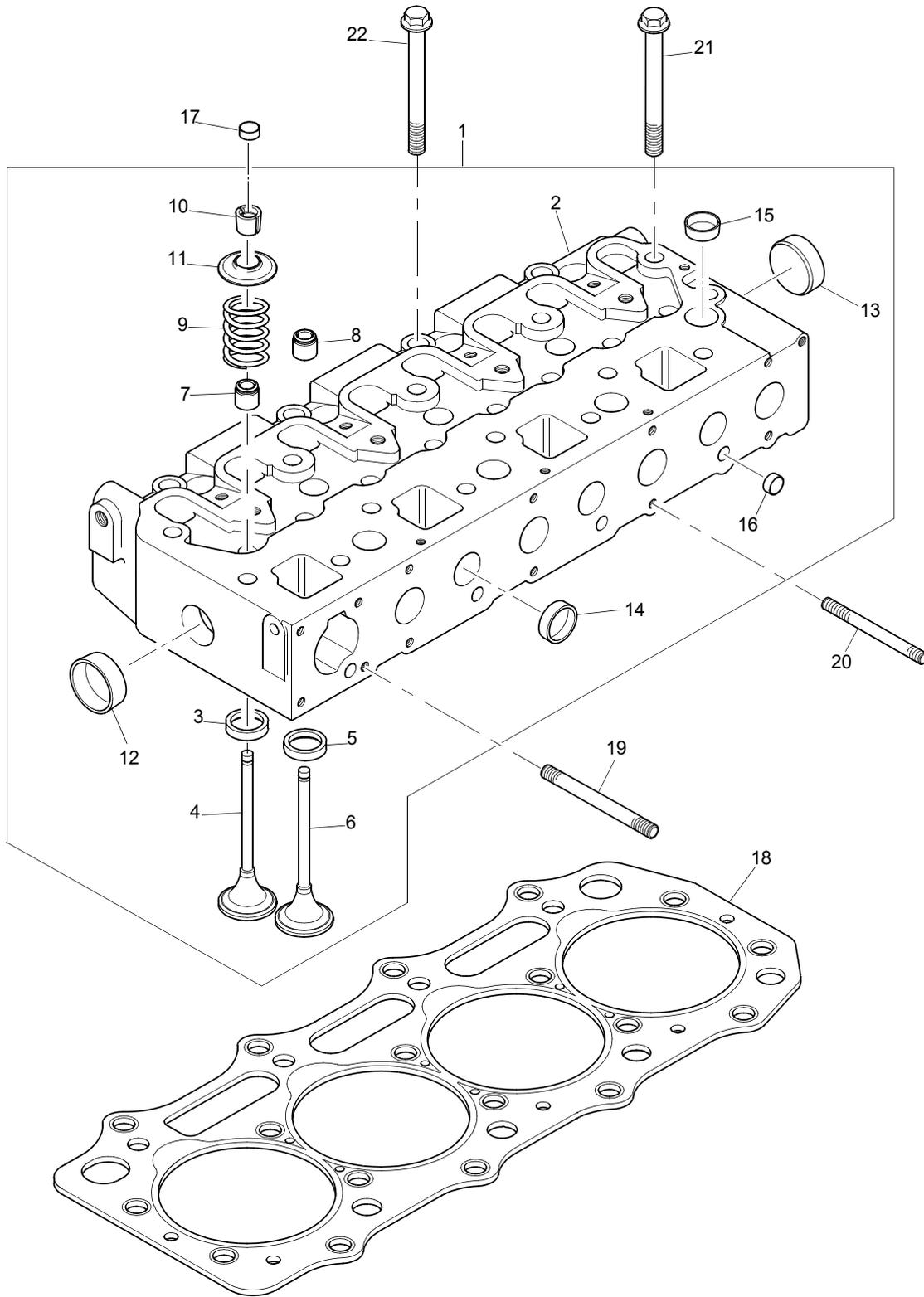
History**a.**

1	115017580		4	PISTON AND RING KIT	
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Footnotes

(A) BEARINGS ARE PRE-FINISHED

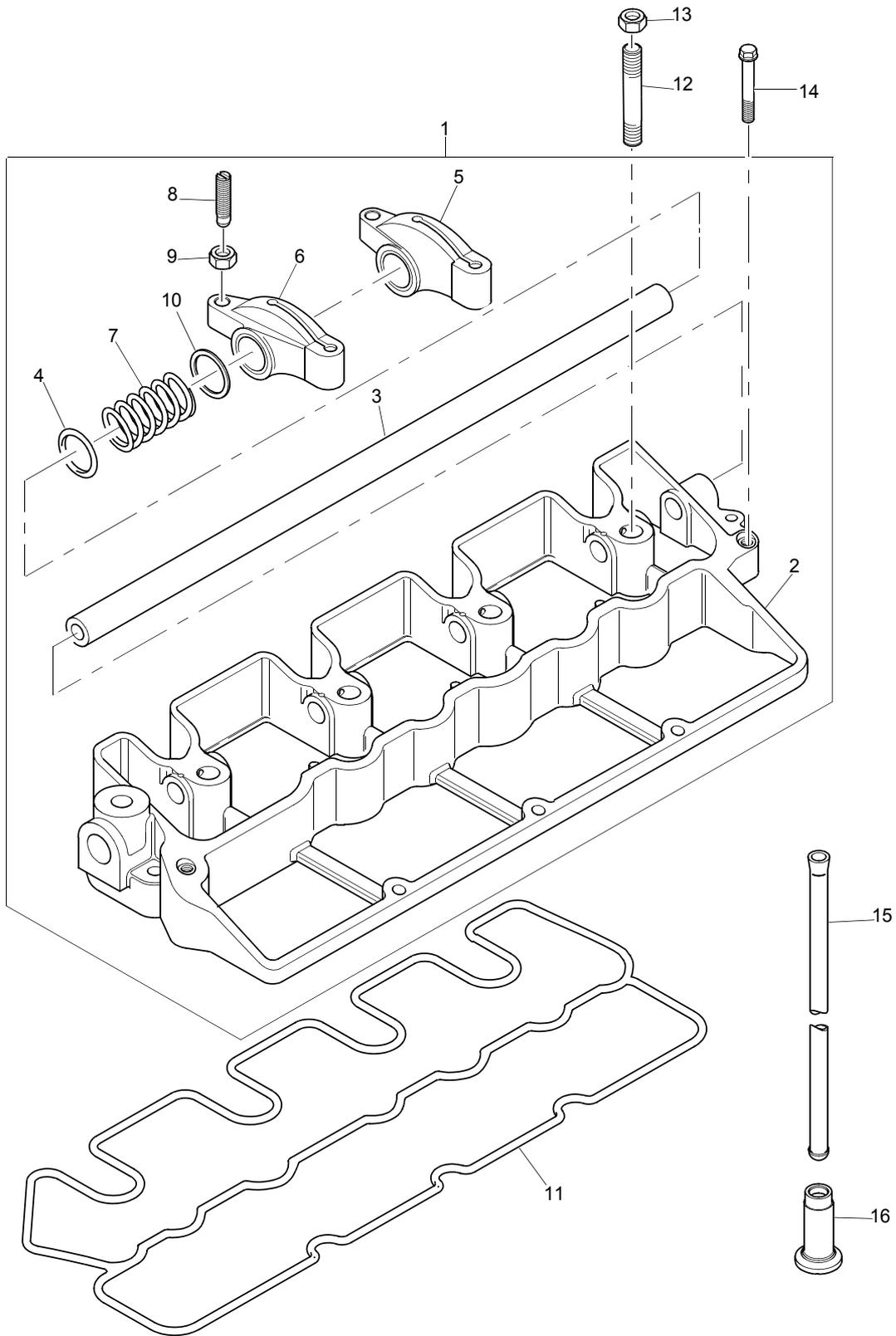
B6CH



B6CH

Item	Part No.	References	Qty.	Description	Notes
1	TPN488		1	CYLINDER HEAD ASSEMBLY	
2	—	⇒ TPN488	1	CYLINDER HEAD KIT	
3	— TPN646		3	VALVE SEAT INSERT	
4	— 120166350		4	INTAKE VALVE	
5	— TPN645		3	SEAT	
6	— 120176360		4	EXHAUST VALVE	
7	— 120406050		4	VALVE SPRING SEAT	(A)
8	— 120406070		4	SEAL - VALVE STEM	(B)
9	— 198216700		8	VALVE SPRING	
10	— 120226070		16	VALVE COLLET	
11	— 120186080		8	CAP	
12	— 064210030		1	CAP	
13	— 064210030		1	CAP	
14	— 064210025		5	PLUG	
15	— 064210018		7	CAP	
16	— 064210010		3	PLUG	
17	120216040		8	CAP	
18	111147591	⚠ (+) 0.5MM	1	GASKET - CYLINDER HEAD	
19	012110660		1	STUD	
20	012110860		4	STUD	
21	111136480		14	SCREW	
22	111136490		4	SCREW	
Footnotes					
(A)	EXHAUST				
(B)	INLET				

B6CH



B6CH

Item	Part No.	References	Qty.	Description	Notes
1	120036821	 b.	1	ROCKER BOX	
2	—	 120036821	1	ROCKER BOX	
3	—120316201		2	ROCKER SHAFT	
4	—052109076		2	SEAL - O RING	
5	—120356131		8	ROCKER ARM ASSEMBLY	INLET
6	—120356141		8	ROCKER ARM ASSEMBLY	EXHAUST
7	—198217170		6	ROCKER SHAFT SPRING	
8	—199486220		16	ADJUSTING SCREW	
9	—020109076		16	NUT	
10	—199280300		12	WASHER	
11	120996130		1	SEAL - ROCKER BOX	
12	012109044		4	STUD	
13	023100010		4	NUT	
14	011310640	 a.	2	SCREW	
15	120456310		8	PUSHROD	
16	120116160		8	TAPPET	

History

a.

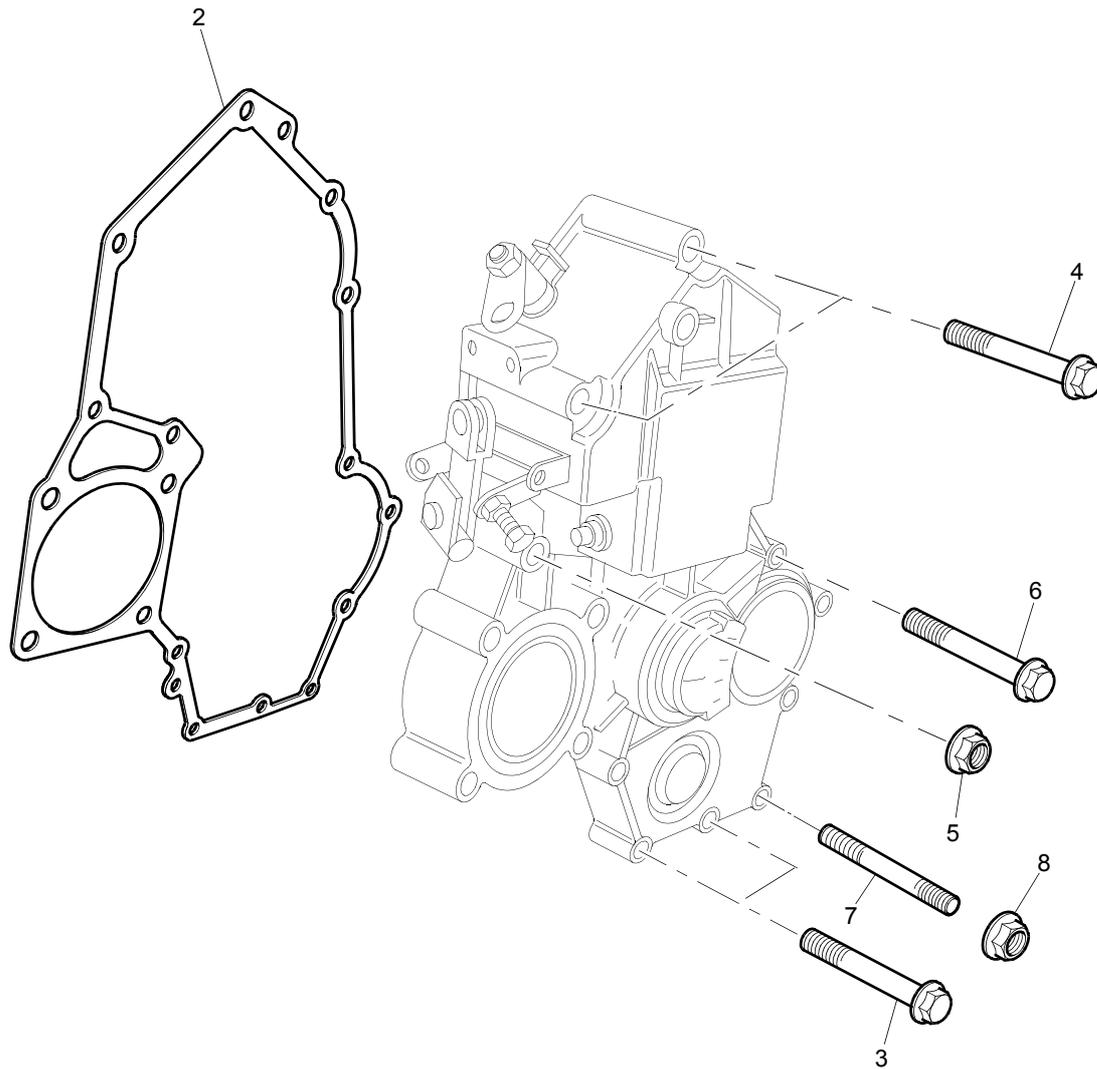
14 011310635 2 SCREW

b.

1 120036830 1 ROCKER BOX ASSEMBLY

→ U909865L

C6MH



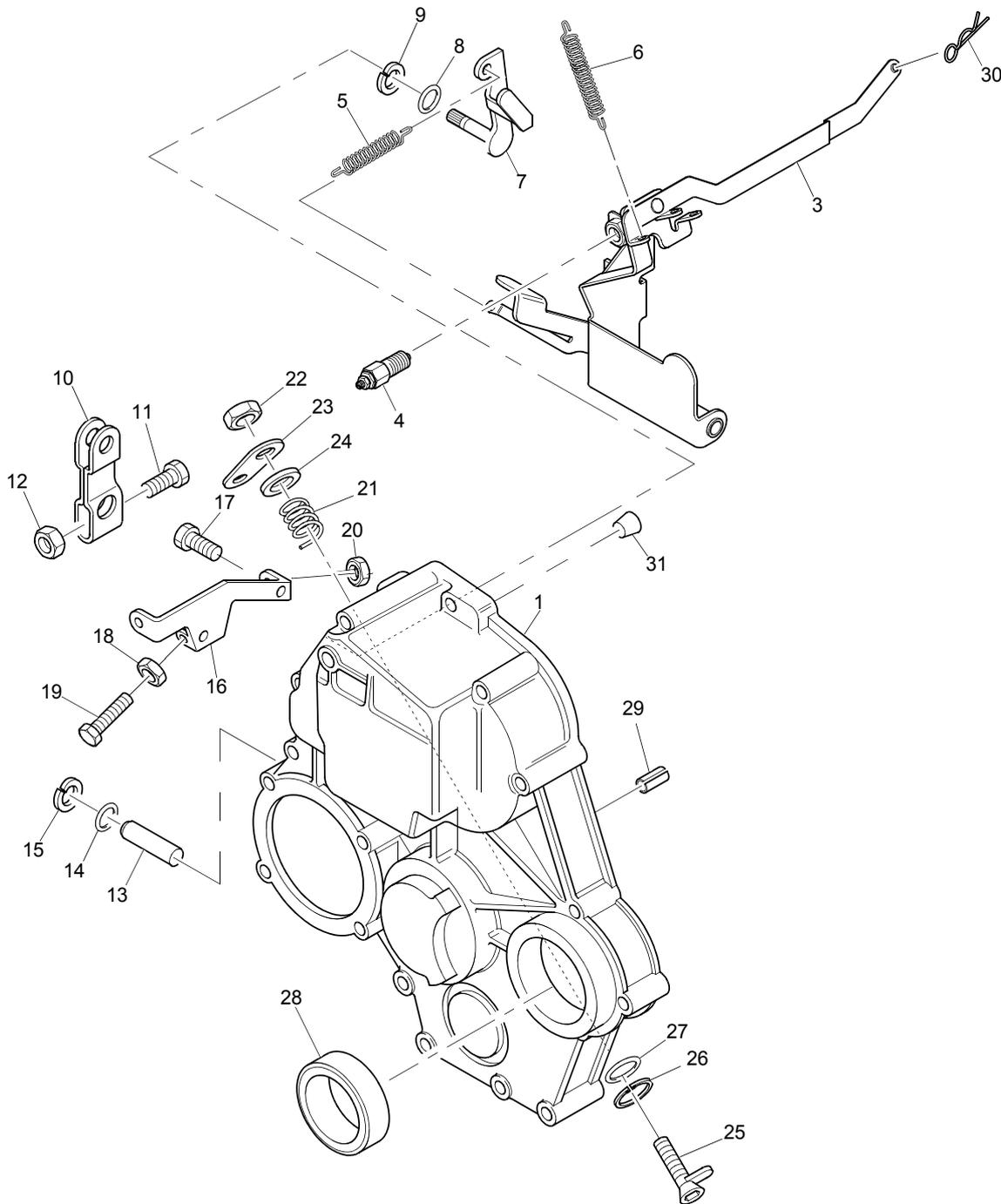
→ U909865L

C6MH

Item	Part No.	References	Qty.	Description	Notes
2	165996600		1	GASKET - TIMING CASE COVER	
3	011310680		2	SCREW	
4	011310645		6	SCREW	
5	023100006		1	NUT	
6	011310660		3	SCREW	
7	012110645		1	STUD	
8	023100006		1	NUT	

→ U909865L

C6MH



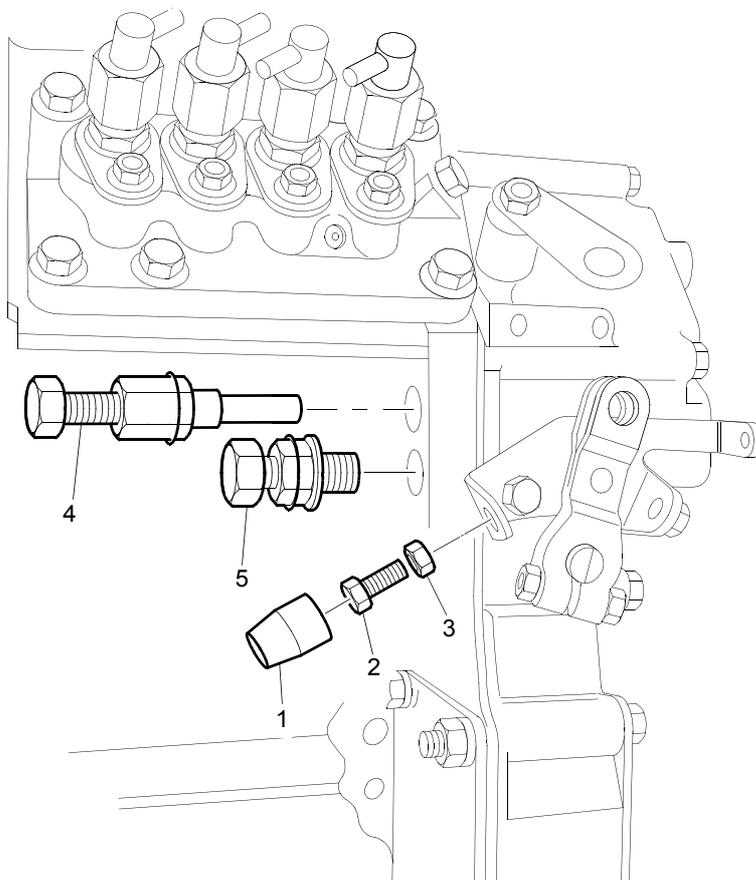
→ U909865L

C6MH

Item	Part No.	References	Qty.	Description	Notes
1	165106350		1	TIMING GEAR CASE	
2	└030300414		1	PIN	
3	125046350		1	LEVER	
4	131046450		1	ANGLEICH SWITCH	
5	198217570		1	SPRING	
6	198216731		1	SPRING	
7	125156170		1	ARM	
8	052100070		1	SEAL - O RING	
9	036800008		1	SNAP RING	
10	125416020		1	LEVER	
11	010110630		1	SCREW	
12	023100006		1	NUT	
13	125116141		1	SHAFT	
14	052100030		1	SEAL - O RING	
15	036800005		1	CIRCLIP	
16	125976120		1	STAY	
17	011310616		1	SCREW	
18	2318A207		1	NUT	
19	2315C039		1	SCREW	
20	2648A120		1	NUT	
21	198216760		1	STOP SPRING	
22	020700008		1	NUT	
23	125176150		1	STOP LEVER	
24	026200008		1	WASHER	
25	125156180		1	ARM	
26	036800006		1	CIRCLIP	
27	052100050		1	SEAL - O RING	
28	198636160		1	SEAL - FRONT END OIL	
29	030300414		1	PIN	
30	031100004		1	PIN	
31	TPN830		1	PLUG	

→ U909865L

C6MH



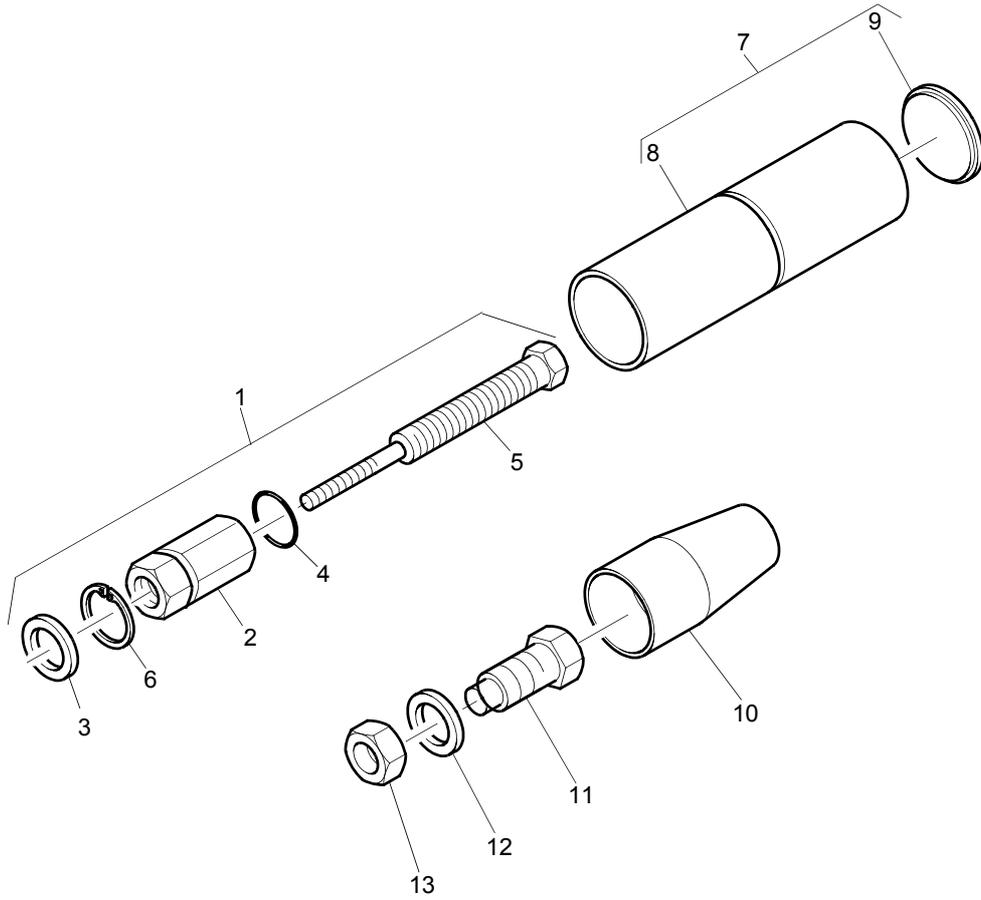
Timing Case	Plate C
→ U909865L	C6MH

Item	Part No.	References	Qty.	Description	Notes
1	26420462		1	ANTI-TAMPER CAP	
2	2315C039		1	SCREW	(A)
3	2648A120		1	NUT	
4		⊕ FOLLOWING	1	BOLT	
5		⊕ FOLLOWING	1	BOLT ASSEMBLY	

Footnotes	
(A)	HIGH IDLE SETTING

→ U909865L

C6MH



→ U909865L

C6MH

Item	Part No.	References	Qty.	Description	Notes
1	131046410		1	BOLT ASSEMBLY	
2	└020109176		1	NUT	
3	└025100010		1	WASHER	
4	└052109100		1	SEAL - O RING	
5	└131466210		1	BOLT	
6	└198346150		1	CIRCLIP	
7	U5MK0619		1	ANTI-TAMPER CAP	
8	└	⇒ U5MK0619	1	ANTI-TAMPER CAP	
9	└064209053		1	END CAP	
10	131276440		1	ANTI-TAMPER CAP	
11	199486330		1	BOLT	
12	025100010		1	WASHER	
13	020109177		1	NUT	

