

280618PBE2
28062806-E18

280618PBE2
2014/11/20

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

Subject to any existing rights of third parties, the information given in this document is the property of Perkins Engines Limited and should not be copied, in whole or part, without the prior written consent of the Company.



Contents

- | | | |
|----|-----------------------------|---------|
| 1. | Introduction | Pg. 4 |
| 2. | How To Use Your Parts Book | Pg. 4 |
| 3. | Engine Breakdown | Pg. 5 |
| 4. | Symbol Descriptions | Pg. 11 |
| 5. | Parts Lists & Illustrations | Pg. 13 |
| 6. | Parts Index | Pg. 242 |

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
Cylinder Block & Liners ACHS1198	13
Cylinder Block & Liners ACHS1198	15
Cylinder Block & Liners ACHS1198	17
Cylinder Block Cover ACHS1167	19
Cylinder Head Assembly ACHS1195	21
Cylinder Head Assembly ACHS1195	23
Cylinder Head Assembly ACHS1195	25
Cylinder Head Cover ACHD0406	27
Cylinder Head Plugs ACHD0412	29
Cylinder Block Plugs ACHD0413	31
Crankshaft ACHD1004	33
Fuel Pump Drive ACHS1170	35
Rocker Shaft Assembly ACHS1173	37

Section	Page
Timing Gears ACHS1194	39
Timing Gears ACHS1194	41
Timing Gears ACHS1194	43
Timing Gears ACHS1194	45
Camshaft ACHS1196	47
Pistons & Rings ADHD0055	49
Connecting Rods & Big End Bearings ADHD0055	51
Piston Cooling Jets ADHD0055	53
Pistons & Rings ADHD0055	55
Piston Cooling Jets ADHD0055	57
Timing Case AEHS1071	59
Timing Cover AEHD0070	61
Timing Case AEHS1070	63

Engine Breakdown

Section	Page
Atomisers AFHD0272	65
Lift Pump AFHD0269	67
Wiring Harness AFHS1560	69
Engine Control Module AFHD0268	71
Flywheel & Starter Ring CDHS1103	73
Flywheel Housing CDHS1102	75
Starter Motor E1BFF	77
Starter Motor - Fixings E1AFF	79
Fan Adaptor F1CFF	81
Fan Belt F1BFF	83
Fan Belt Tensioner F1AFF	85
Fan Belt Tensioner F1AFF	87
Fan Belt Tensioner F1AFF	89

Section	Page
Fan F1DFF	91
Fan Drive F1FFF	93
Sump GBHD1002	95
Oil Pump GBHS1082	97
Oil Pump - Fixings GBHS1081	99
Dipstick GBHS1092	101
Blanking Plug GBHS1092	103
Filler GBHS1093	105
Breather Clip HBHS1032	107
Breather Hose H1AFF	109
Oil Filter JBHD0397	111
Oil Filter JBHD0397	113
Oil Filter JBHD0397	115

Section	Page
Oil Cooler JBHS1153	117
Oil Cooler Pipes JBHS1153	119
Thermostat JBHS1153	121
Front End Drive Input KBHS1053	123
Water Pump LBHD0089	125
Water Pump LBHD0090	127
Water Pump LBHD0090	129
Alternator N1BFF	131
Alternator Bracket & Fixings N1BFF	133
Alternator Pulley and Belt N1BFF	135
Alternator N1BFF	137
Alternator Bracket & Fixings N1BFF	139
Alternator Mounting N1AFF	141

Section	Page
Alternator Mounting N1AFF	143
Feed Pipes SBHD0158	145
Feed Pipes SBHD0158	147
Leak-Off Pipes SBHD0158	149
Leak-Off Pipes SBHD0158	151
Heatshield SBHD0159	153
Turbocharger SBHD0163	155
Turbocharger SBHD0163	157
Air Duct SBHD0162	159
Air Filter Mounting T1FFF	161
Air Filter Assembly T1CFF	163
Air Filter Mounting T1CFF	165
Air Duct T1CFF	167

Engine Breakdown



















Section	Page
Air Duct T1DFF	169
Air Filter Mounting T1AFF	171
Air Inlet TBHS1049	173
Exhaust Manifold UBHS1036	175
Exhaust Outlet Flange U1AFF	177
Exhaust Outlet Gasket U1BFF	179
Filter Head Assembly VBHS1096	181
Fuel Filter VBHS1096	183
Pipework & Connections VBHD0132	185
Pipework & Connections VBHD0132	187
Pipework & Connections VBHD0132	189
Low Pressure Fuel Pipe Clips V1AFF	191
Engine Lifting Eyes XBHS1032	193

Section	Page
Engine Lifting Eyes XBHS1033	195
Radiator Z1ZFF	197
Radiator Z1ZFF	199
Radiator Coolant Level Switch Z2PFF	201
Radiator Pipe Straps Z1EFF	203
Radiator Bracket Z1GFF	205
Radiator Guard Z1CFF	207
Radiator Guard Z1CFF	209
Radiator Pipes Z1CFF	211
Engine Mounts ZCHS1057	213
Wiring Harness Z1HFF	215
Wiring Harness Bracket Z1DFF	217
Interface Connector Z1MFF	219

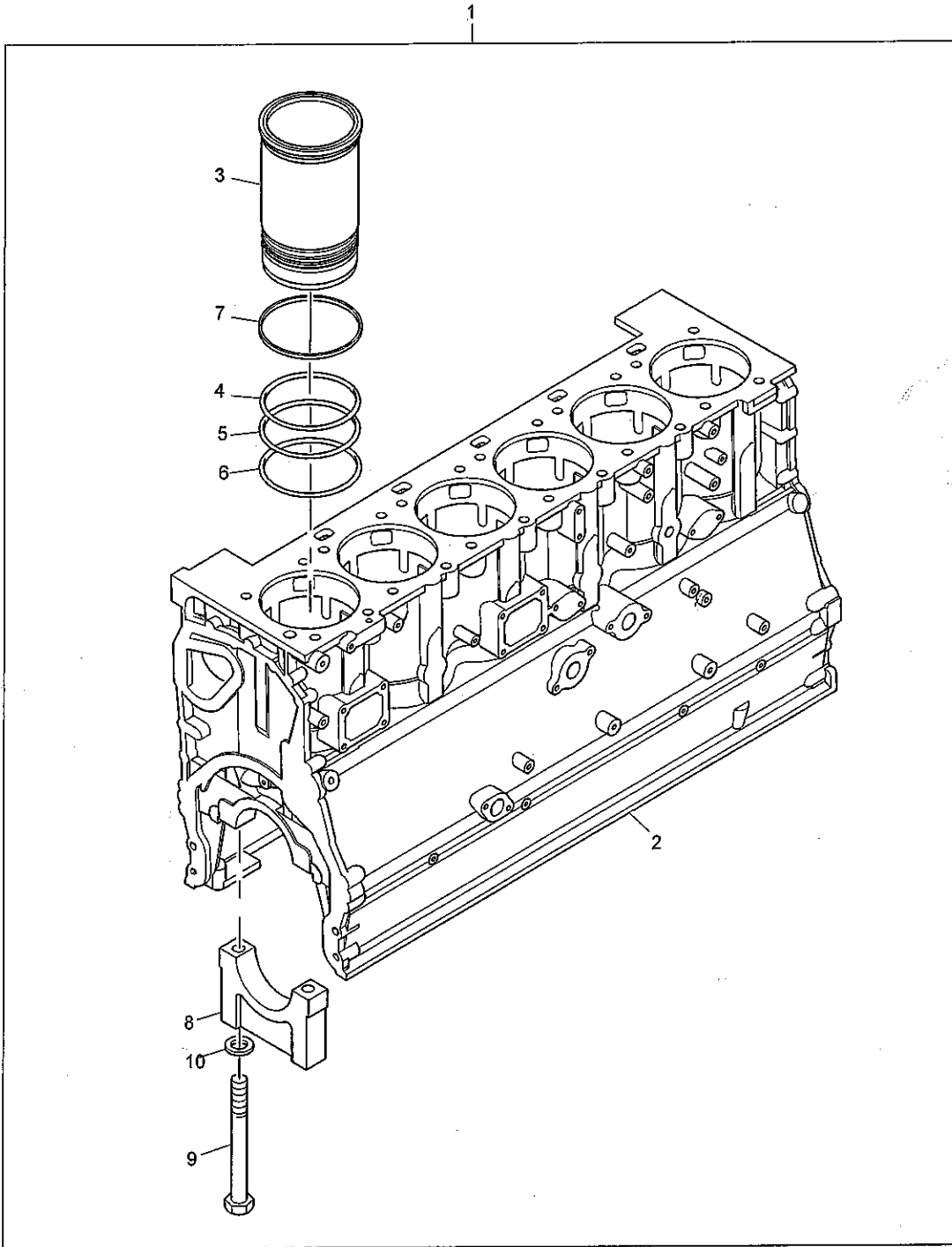
Section	Page
Wiring Harness ZNHD0073	221
Temperature And Pressure Switch ZNHD0200	223
Speed Switch ZNHD0200	225
Speed Sensor ZNHD0200	227
Temperature Sensor ZNHD0200	229
Earth Strap ZNHS1038	231
Sensor Mounting ZNHS1047	233
Temperature Switch Z1AFF	235
Pressure Switch Z1BFF	237
Top Service Kit SACS1656	239
Bottom Service Kit SGBS1657	241

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

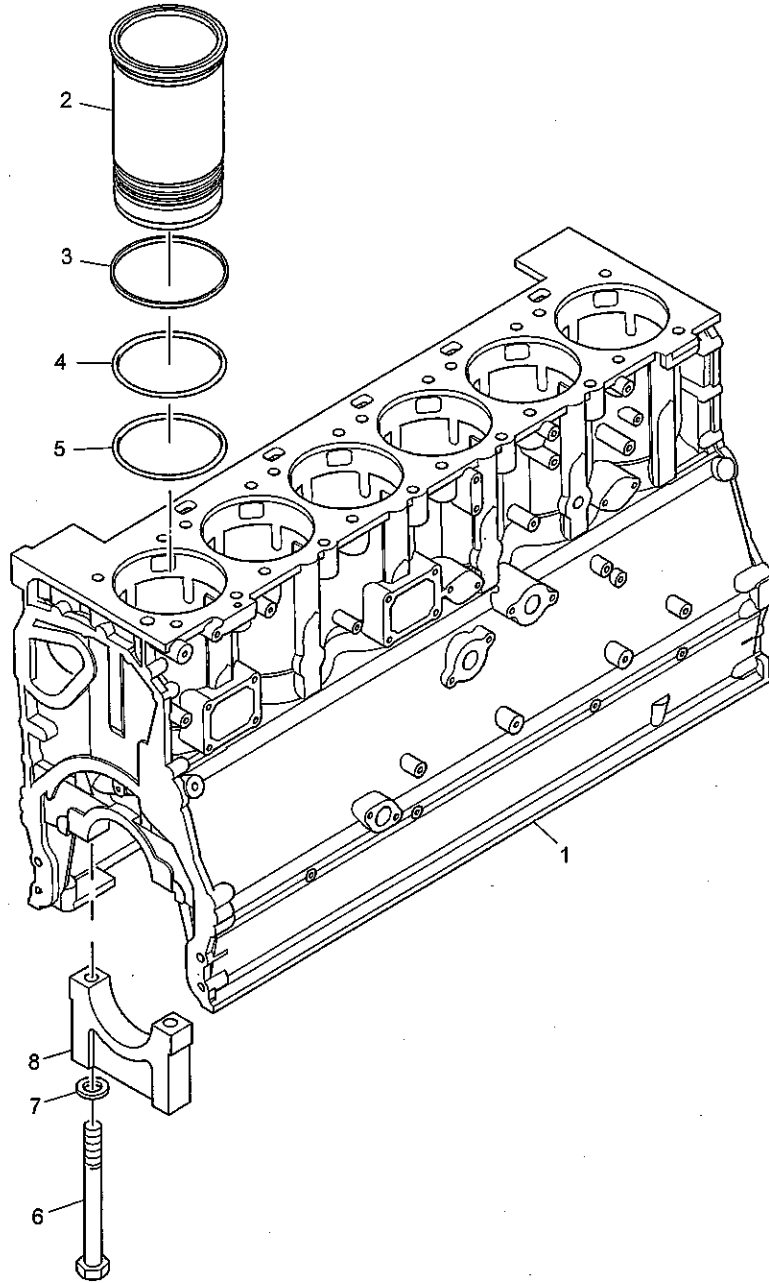
ACHS1198



Cylinder Block & Liners	Plate A
ACHS1198	

Item	Part No.	References	Qty.	Description	Notes
1	CH11924	→ 12/10/2008	1	CYLINDER BLOCK ASSEMBLY	
2	—	⇒ CH11924	1	CYLINDER BLOCK	
3	—CH11922		6	CYLINDER LINER	
4	—CH11654		6	SEAL - OIL	
5	—CH11655		6	SEAL - OIL	
6	—CH11656		6	SEAL - OIL	
7	—CH10673		6	BAND	
8	—	⇒ CH11924	1	BEARING CAP	
9	—CH10679		14	BOLT	
10	—CH10672		14	WASHER	

ACHS1198

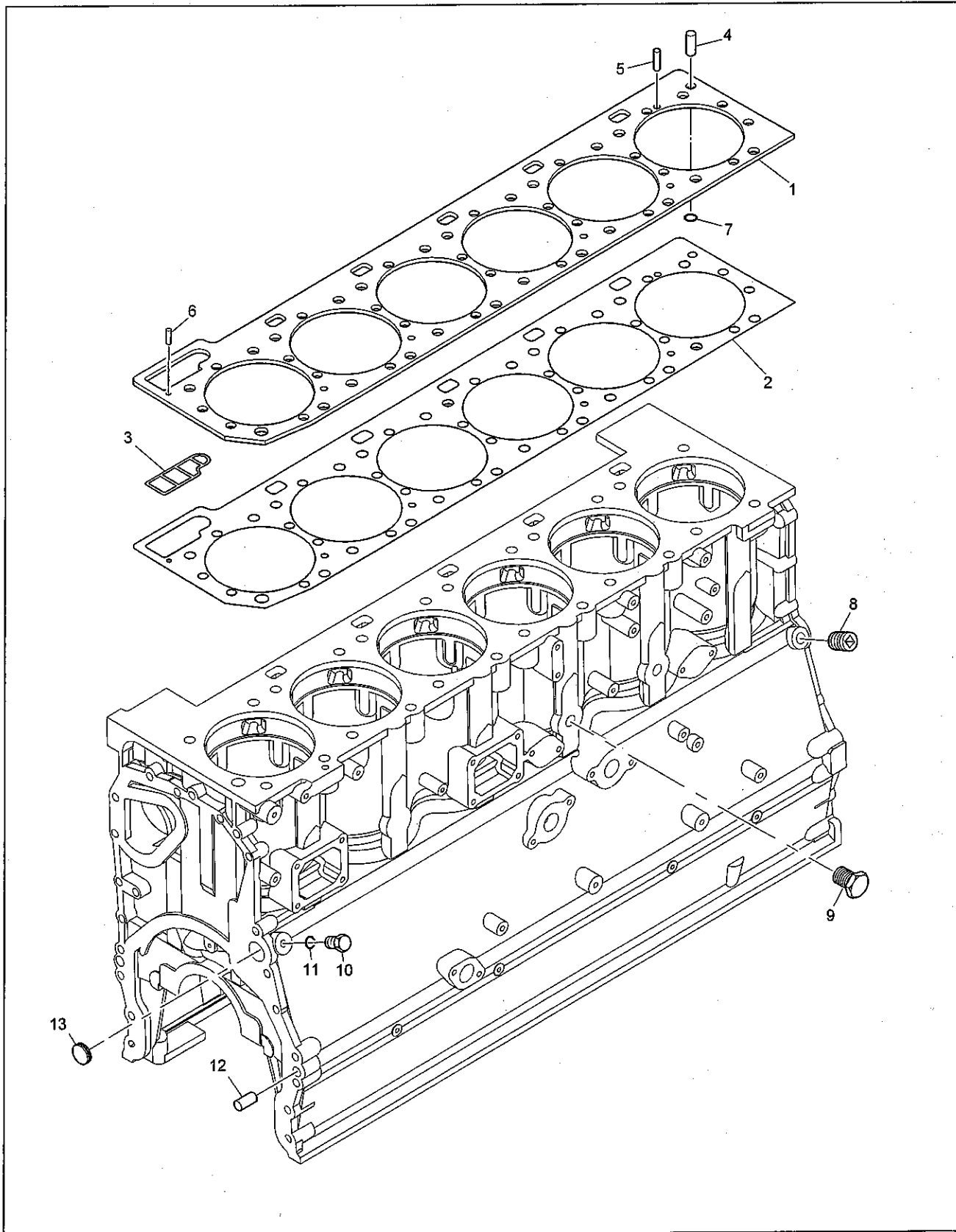


Cylinder Block & Liners	Plate A
ACHS1198	

Item	Part No.	References	Qty.	Description	Notes
1	T400210	→ 13/10/2008 ☐ a.	1	CYLINDER BLOCK ASSEMBLY	
2	└─CH12742		6	LINER - PRESS FIT	
3	└─CH10673	☐ b. ☐ b. ☐ b.	6	BAND	
4	└─CH11654		6	SEAL - OIL	
5	└─CH11656		12	SEAL - OIL	
6	└─T400209		14	BOLT	
7	└─CH10672		14	WASHER	
8	└─	⇒ T400210	7	BEARING CAP	

History					
a.					
1	CH12744	→ 13/10/2008	1	CYLINDER BLOCK ASSEMBLY	
b. General History Section					
3	└─CH10679		14	BOLT	
3	└─CH11656		6	SEAL - OIL	
3	└─CH12738		6	LINER - PRESS FIT	

ACHS1198



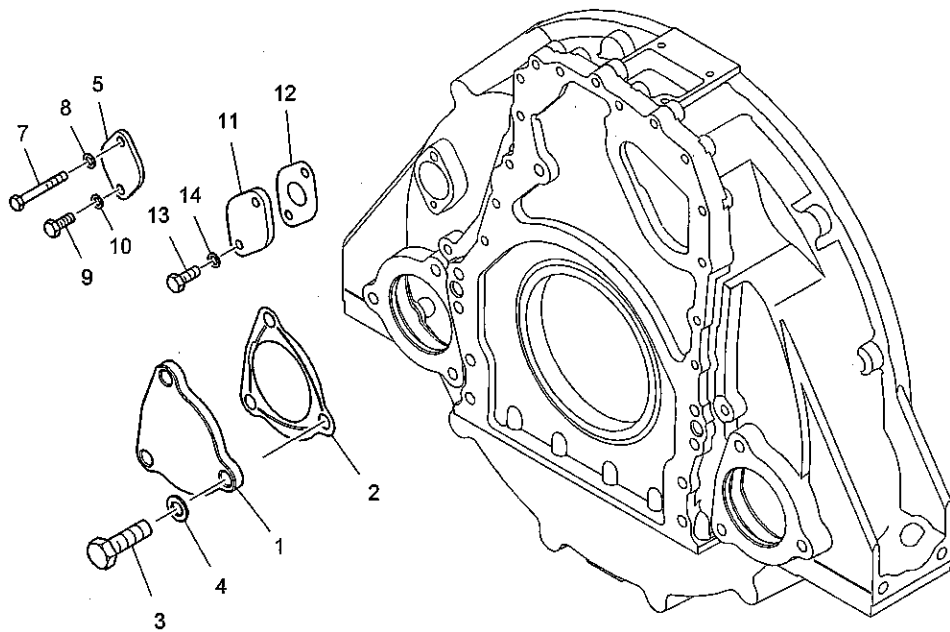
Cylinder Block & Liners	Plate B
ACHS1198	

Item	Part No.	References	Qty.	Description	Notes
1	CH10662	ⓐ b.	1	SPACER	
2		⇒ KRP1529	1	GASKET	
3		⇒ KRP1529	1	SEAL	
4	CH10661		1	DOWEL	
5	CH10656		1	DOWEL	
6	CH10659		1	DOWEL	
7	CH10660		1	SEAL - O RING	(A)
8	CH10221		5	PLUG	
9	CH10568		2	PLUG	
10	CH10664		1	PLUG	
11	CH10667		1	SEAL - O RING	
12	CH10658		2	DOWEL	
13	T400206	ⓐ a.	2	PLUG	

History					
a.					
13	CH10666		2	PLUG	
	CH10657		2	SEAL - O RING	
b.					
1	CH11398		1	GASKET	
c.					
	CH10663		1	PLUG	

Footnotes	
(A)	ALSO INCLUDED IN KRP1529

ACHS1167

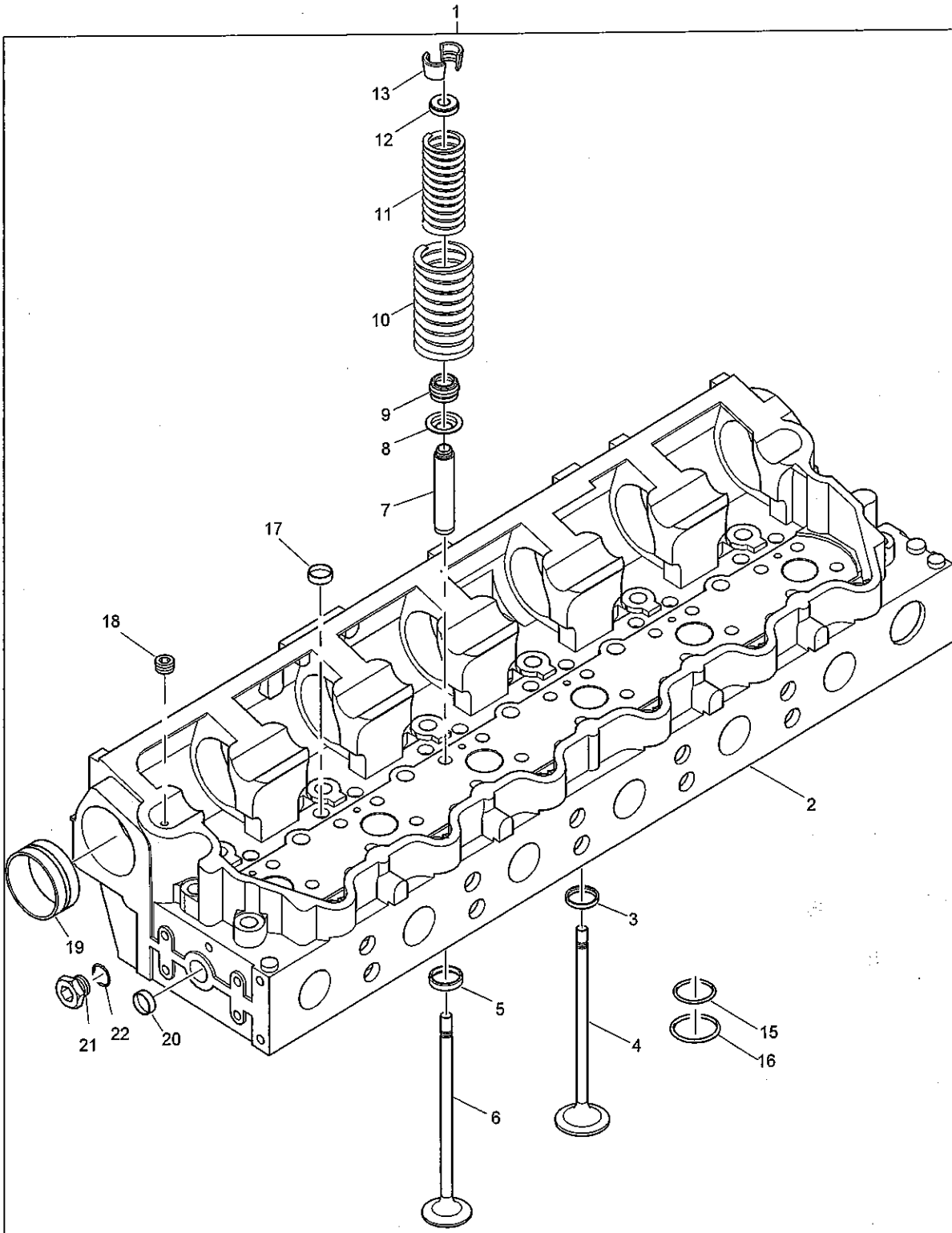


Cylinder Block Cover	Plate A
ACHS1167	

Item	Part No.	References	Qty.	Description	Notes
1	CH11552		1	BLANKING COVER	
2	CH10310		1	GASKET - BLANKING PLATE	
3	CH11554		3	BOLT	
4	CH10100		3	WASHER	
5	CH10539		2	BLANKING COVER	
6	T400196		2	SEAL	(A)
7	CH10538		2	BOLT	
8	CH10255		2	WASHER	
9	CH11895		2	BOLT	
10	CH10255		2	WASHER	
11	CH10562		1	BLANKING COVER	
12	CH11560		1	SEAL	
13	CH10815		2	BOLT	
14	CH10255		2	WASHER	

Footnotes	
(A)	NOT ILLUSTRATED

ACHS1195

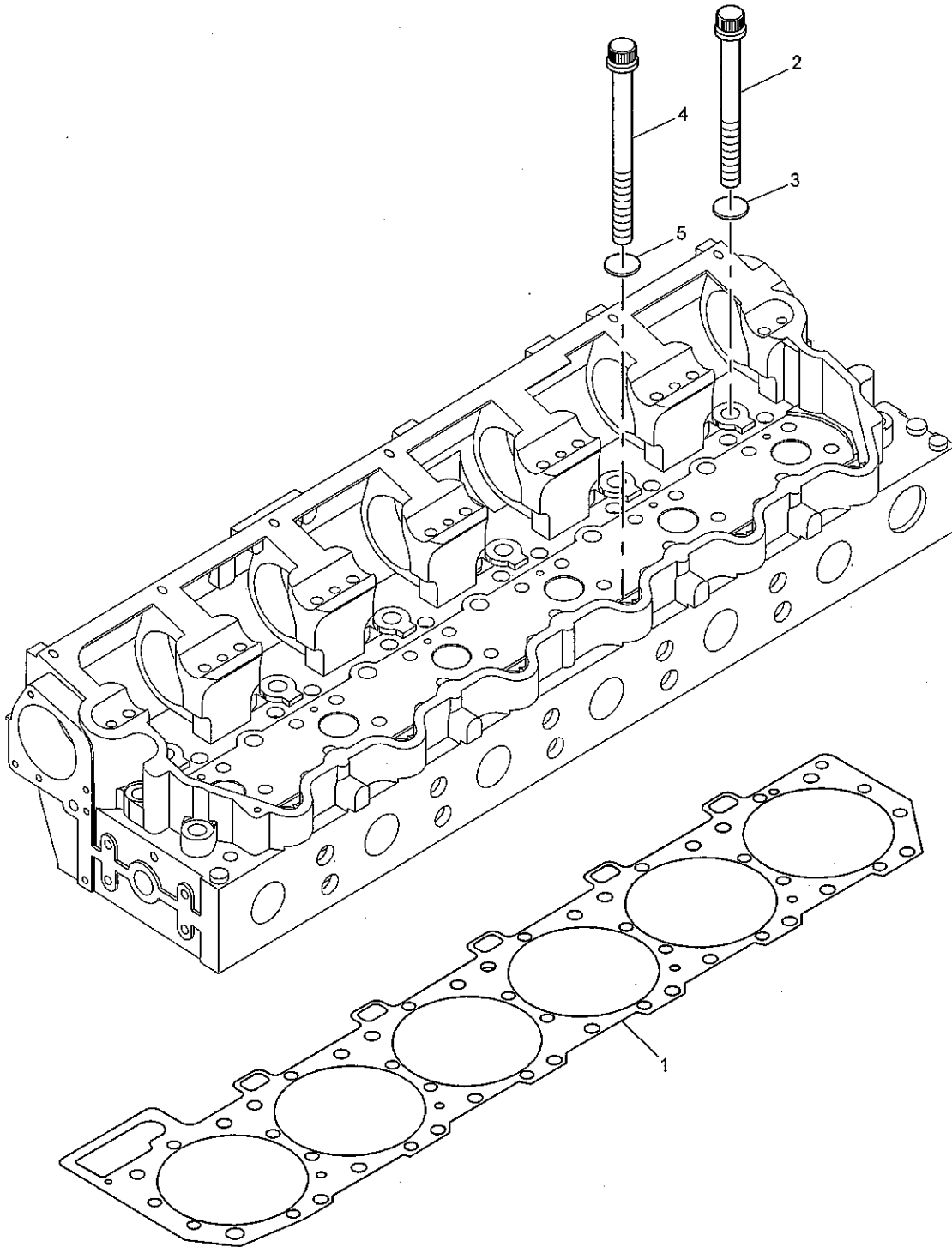


Cylinder Head Assembly	Plate A
ACHS1195	

Item	Part No.	References	Qty.	Description	Notes
1	CHI1399	a.	1	CYLINDER HEAD ASSEMBLY	
2	—	CH11399	1	CYLINDER HEAD	
3	—T400215	a.	12	VALVE SEAT INSERT	
4	—CH11021		12	INTAKE VALVE	
5	—T400216	a.	12	VALVE SEAT INSERT	
6	—CH11022		12	EXHAUST VALVE	
7	—CH10724		24	VALVE GUIDE	
8	—CH10716		24	WASHER	
9	—CH11486		24	SEAL - VALVE STEM	
10	—CH12798	a.	24	VALVE SPRING OUTER	
11	—CH11489		24	VALVE SPRING INNER	
12	—CH10715		24	SEAT	
13	—CH10019		48	VALVE COLLET	
14	—CH12582	a.	6	SLEEVE	
15	—CH10727		12	SEAL - O RING	
16	—CH10723		6	SEAL - O RING	
17	—CH10032		17	PLUG	
18	—CH10258		3	PLUG	
19	—CH11228		7	CAMSHAFT BUSH	
20	—CH10722		20	PLUG	
21	—CH10286		2	PLUG	
22	—CH11880		2	SEAL - O RING	
Service Options					
1	R/CH11399		1	CYLINDER HEAD KIT - EXCH	

History					
a.					
1	CHI1399		1	CYLINDER HEAD ASSEMBLY	
3	—CH10731		12	VALVE SEAT INSERT	
5	—CH10732		12	VALVE SEAT INSERT	
10	—CH11487		24	VALVE SPRING OUTER	
14	—CH11311		6	SLEEVE	
	—CH10726		6	SEAL - O RING	

ACHS1195

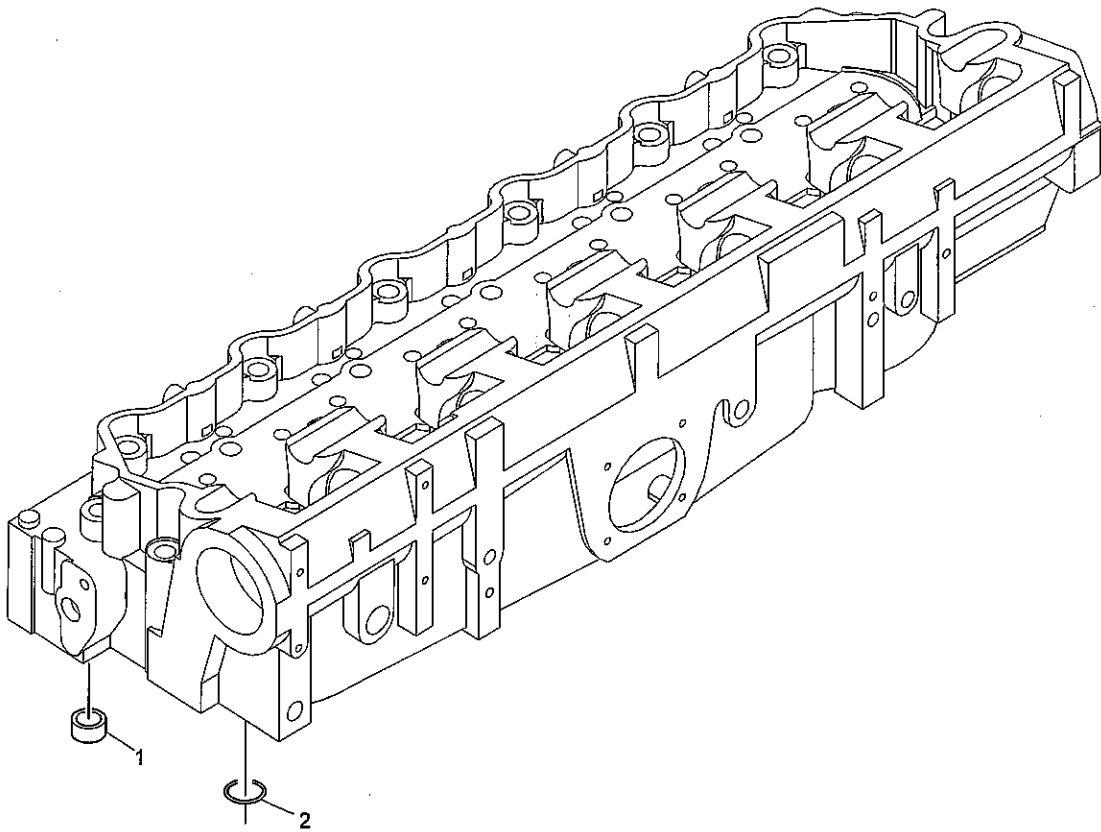


Cylinder Head Assembly	Plate B
ACHS1195	

Item	Part No.	References	Qty.	Description	Notes
1		⇒ KRP1529	1	GASKET - CYLINDER HEAD	
2	CH10712		16	BOLT	
3	CH10711		16	WASHER	
4	CH10713		10	BOLT	
5	CH10711		10	WASHER	

History					
a.	CH10708		6	SLEEVE	

ACHS1195

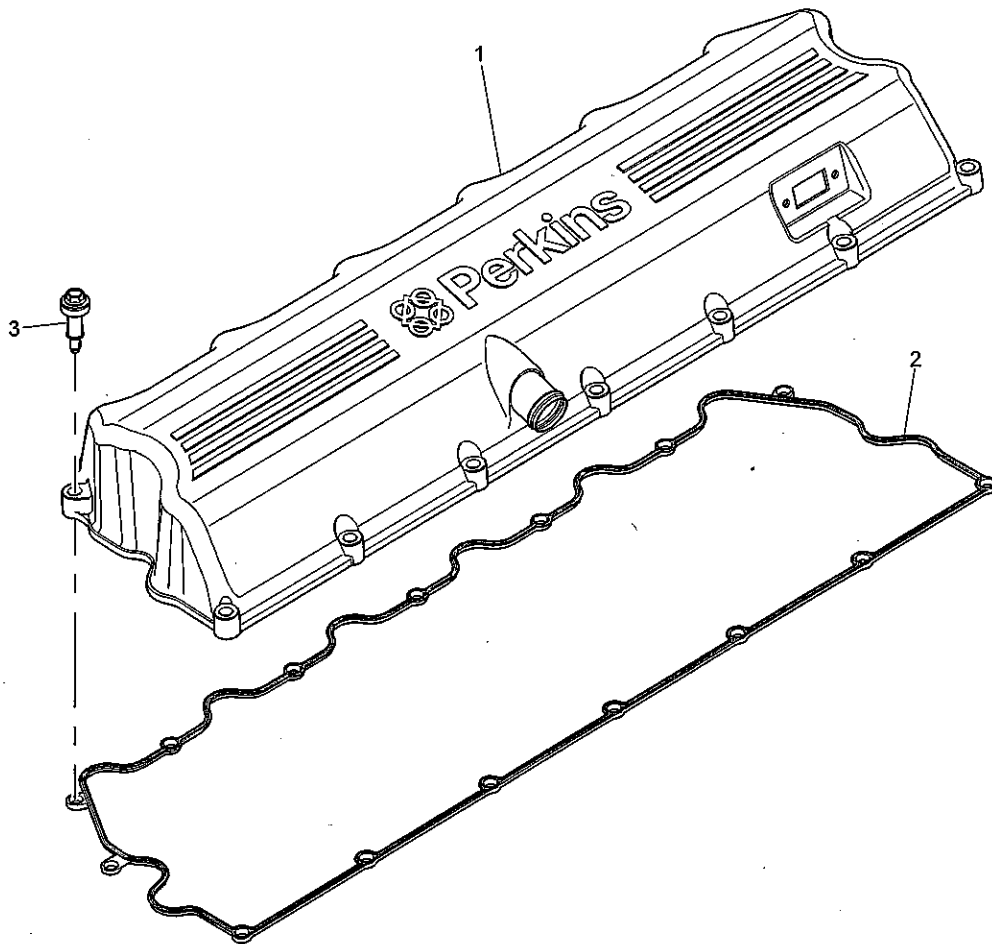


Cylinder Head Assembly	Plate C
ACHS1195	

Item	Part No.	References	Qty.	Description	Notes
1	CH10703		24	SEAL	(A)
2	CH10660		1	SEAL - O RING	(A)

Footnotes					
(A)	ALSO INCLUDED IN KRP1529				

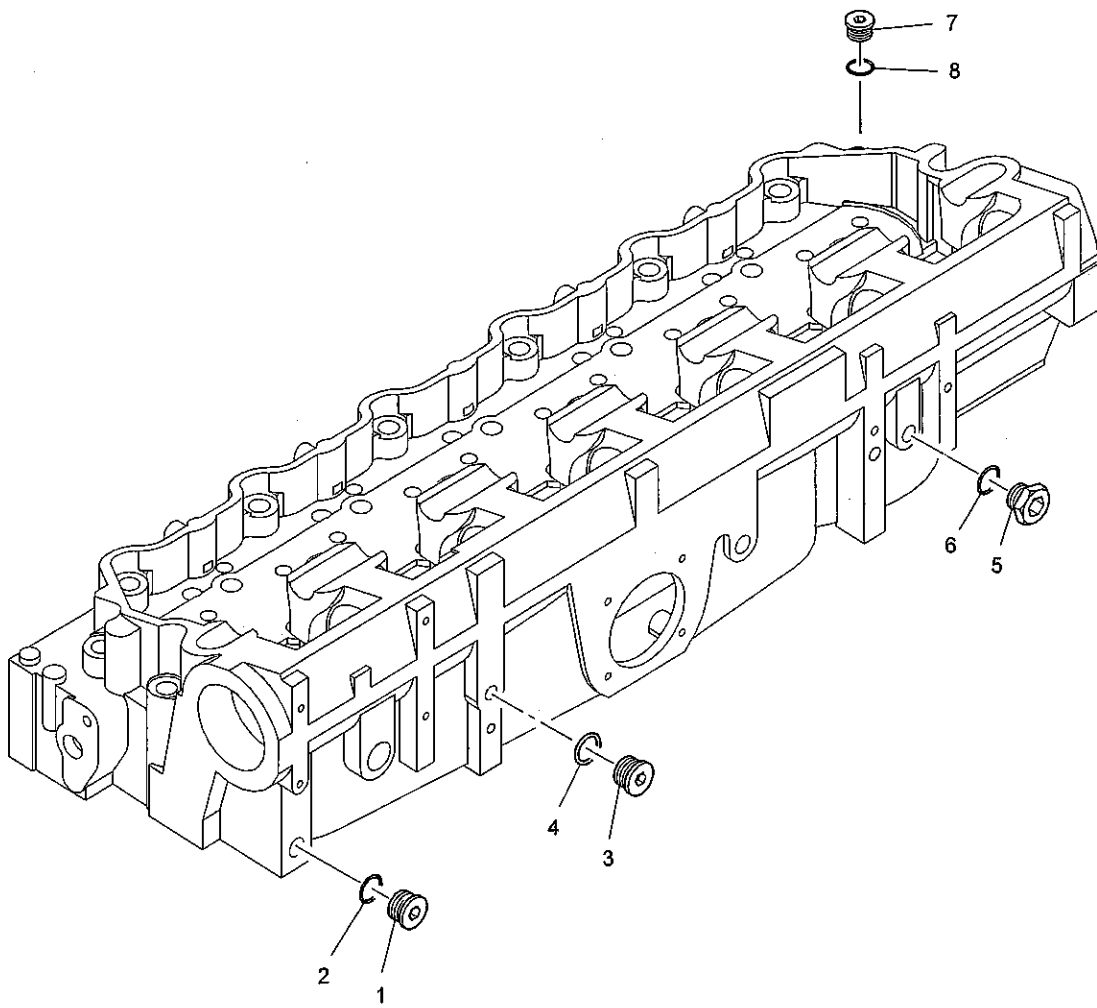
ACHD0406



Cylinder Head Cover	Plate A
	ACHD0406

Item	Part No.	References	Qty.	Description	Notes
1	CH11512		1	CYL HEAD COVER ASSY	
2	└CH11353		1	SEAL - ROCKER BOX COVER	
3	└CH10955		15	FASTENER	

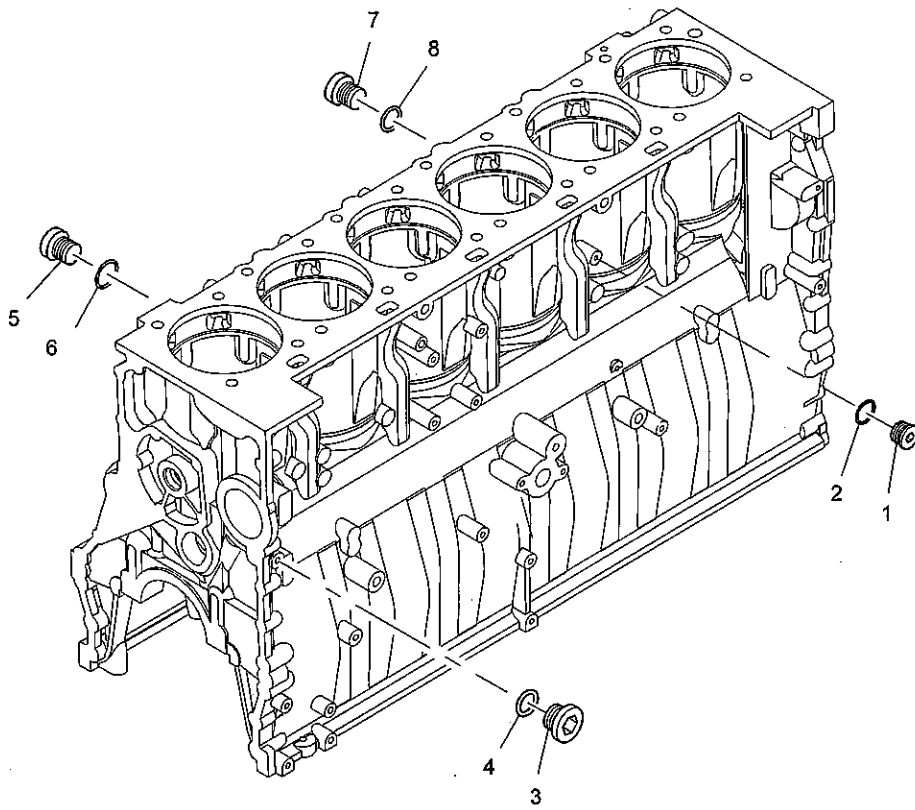
ACHD0412



Cylinder Head Plugs	Plate A
ACHD0412	

Item	Part No.	References	Qty.	Description	Notes
1	CH11375		1	PLUG	
2	CH10119		1	SEAL - O RING	
3	CH10287		1	PLUG	
4	T406205		1	SEAL - O RING	
5	CH10286		5	PLUG	
6	CH11880		5	SEAL - O RING	
7	CH10287		2	PLUG	
8	CH10146		2	SEAL - O RING	

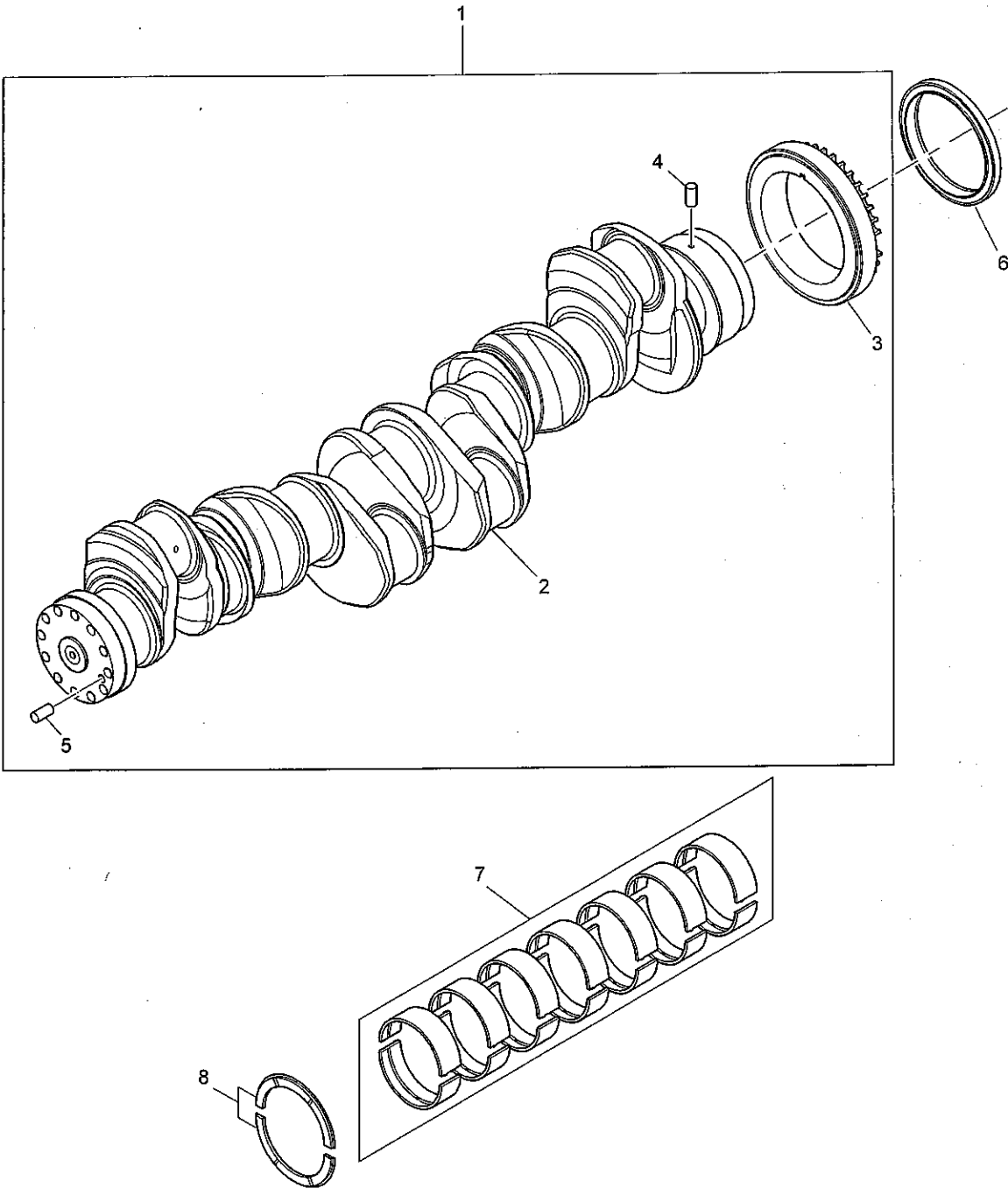
ACHD0413



Cylinder Block Plugs	Plate A
	ACHD0413

Item	Part No.	References	Qty.	Description	Notes
1	CH10287		1	PLUG	
2	CH10146		1	SEAL - O RING	
3	CH10285		2	PLUG	
4	T409314		2	SEAL - O RING	
5	CH10287		2	PLUG	
6	CH10146		2	SEAL - O RING	
7	CH10287		6	PLUG	
8	T406205		6	SEAL - O RING	

ACHD1004

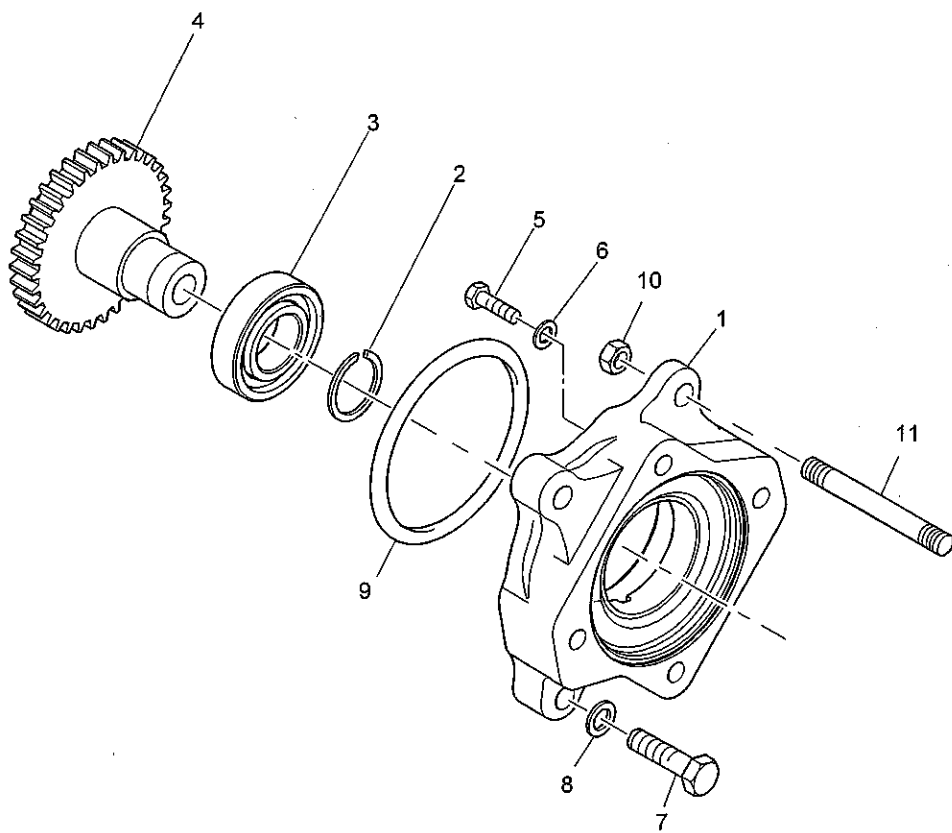


Crankshaft	Plate A
ACHD1004	

Item	Part No.	References	Qty.	Description	Notes
1	CH11521		1	CRANKSHAFT ASSEMBLY	
2	—	⇒ CH11521	1	CRANKSHAFT	
3	—CH11687		1	CRANKSHAFT GEAR	
4	—CH10653		1	DOWEL	
5	—CH10652		1	PIN	
6	CH11379		1	SEAL - FRONT END OIL	
7	KRP3122	ⓐ a.	1	MAIN BEARING KIT	
8	KRP3206		1	THRUST WASHER KIT	
Service Options					
7	KRP3116/025	ⓐ (-)0.025"	1	MAIN BEARING KIT - U/S	
7	KRP3116/050	ⓐ (-)0.050"	1	MAIN BEARING KIT - U/S	
7	KRP3117/025	ⓐ (+)0.025"	1	MAIN BEARING KIT - U/S	
7	KRP3117/050	ⓐ (+)0.050"	1	MAIN BEARING KIT - U/S	

History					
a.					
7	KRP3118		1	MAIN BEARING KIT	

ACHS1170

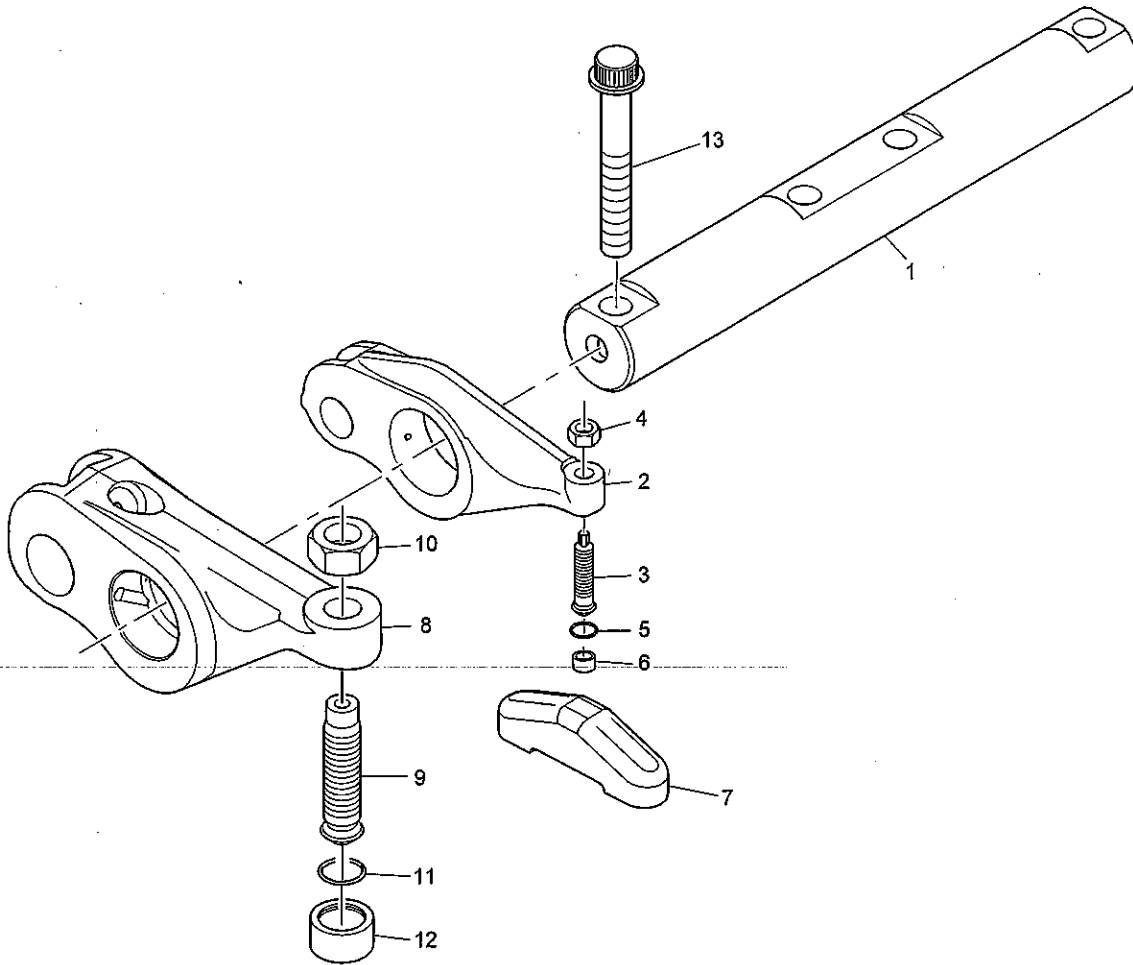


Fuel Pump Drive	Plate A
	ACHS1170











Item	Part No.	References	Qty.	Description	Notes
1	CH10594		1	ADAPTOR	
2	CH10581		1	SNAP RING	
3	CH10004		2	BALL BEARING	
4	CH10592		1	FUEL INJECTION PUMP GEAR	
5	CH10583		3	BOLT	
6	CH10593		3	WASHER	
7	CH10550		3	BOLT	
8	CH10255		4	WASHER	
9	CH10590		1	SEAL - O RING	
10	CH10798		1	NUT	
11	CH12764		1	STUD	

History					
a.	CH10567		1	BOLT	

ACHS1173



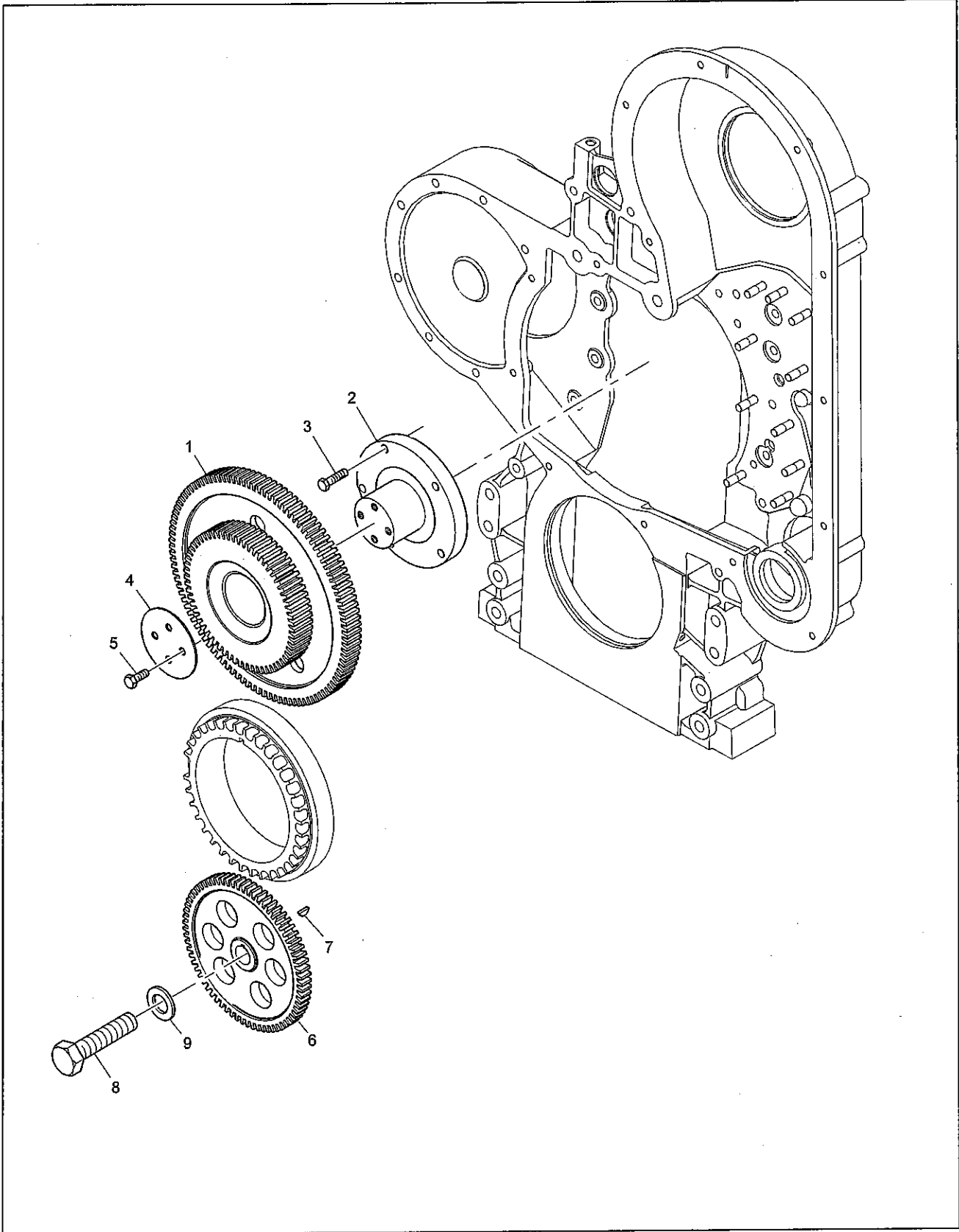
ACHS1173

Item	Part No.	References	Qty.	Description	Notes
1	CH12695	 c.	3	ROCKER SHAFT	
2	T400223	 b.	12	ROCKER ARM ASSEMBLY	
3	CH12701	 c.	12	SCREW	
4	T400403	 a.	12	NUT	
		 c.			
5	CH10229		12	SEAL - O RING	
6	CH12702	 c.	12	PIVOT	
		 d.			
7	CH12831	 b.	12	BRIDGE PIECE	
8	T400224	 b.	6	ROCKER ARM ASSEMBLY	
		 c.			
9	CH11076		6	SCREW	
10	CH11077		6	NUT	
11	CH11079		6	SEAL - O RING	
12	CH11078		6	BUTTON	
13	CH10566		4	BOLT	


History

a.					
4	CH12697		12	NUT	
b.					
2	CH11165		12	ROCKER ARM ASSEMBLY	
7	CH10680		12	BRIDGE	
8	CH12698		6	ROCKER ARM ASSEMBLY	
c.					
1	CH10685		3	ROCKER SHAFT	
3	CH11916		12	SCREW	
4	CH10688		12	NUT	
6	CH12510		12	PIVOT	
8	CH11161		6	ROCKER ARM ASSEMBLY	
d.					
6	CH10689		12	BUTTON	

ACHS1194

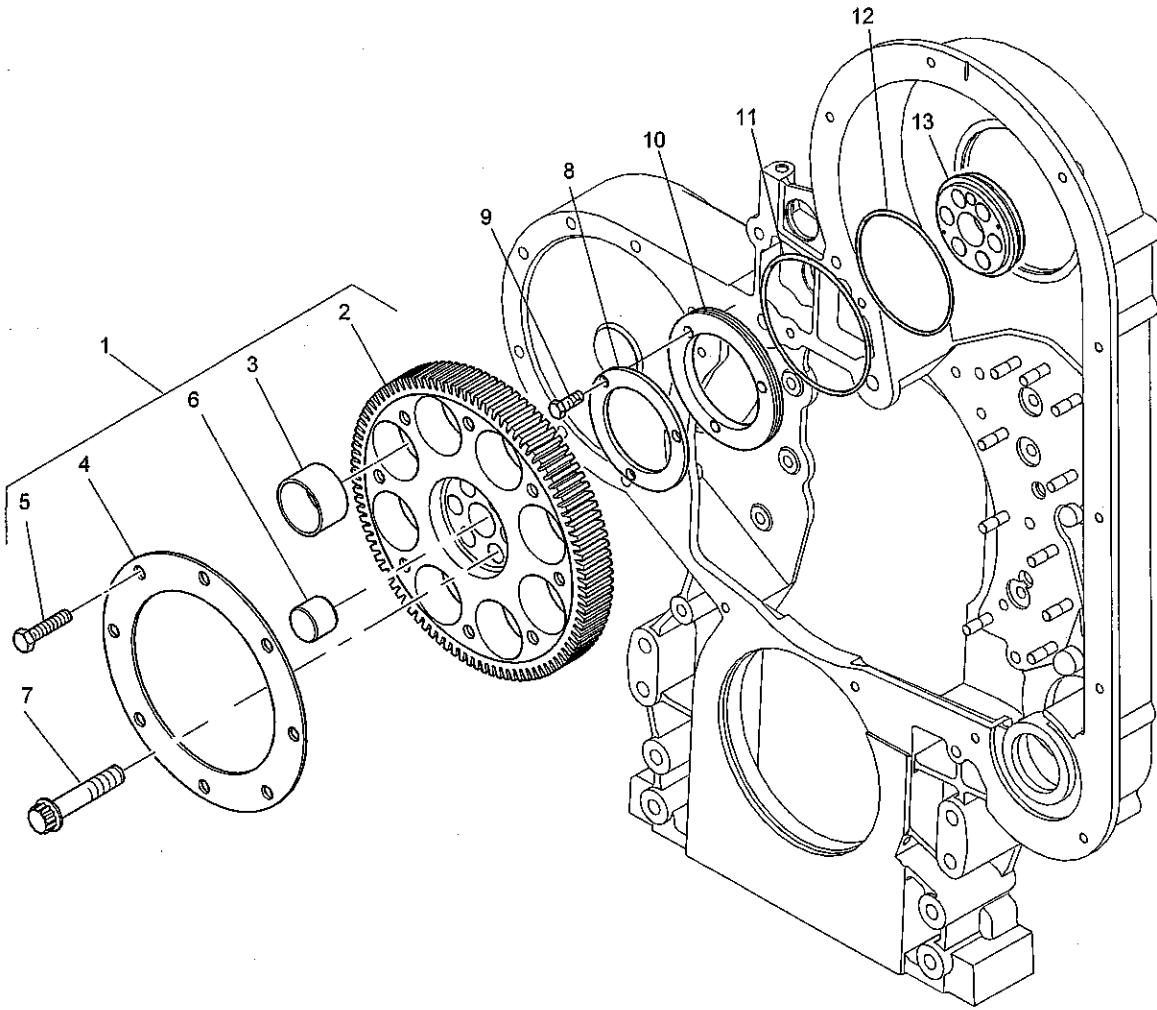


Timing Gears	Plate A
ACHS1194	





Item	Part No.	References	Qty.	Description	Notes
1	CH11526	 a.	1	IDLER GEAR	
2	CH10876		1	STUB	
3	CH10611		5	BOLT	
4	CH10619		1	THRUST PLATE	
5	CH10621		4	BOLT	
6	CH10622		1	OIL PUMP GEAR	
7	CH10005		1	WOODRUFF KEY	
8	CH10609		1	BOLT	
9	CH10610		1	WASHER	

History					
a.					
1	CH10963		1	IDLER GEAR	

ACHS1194

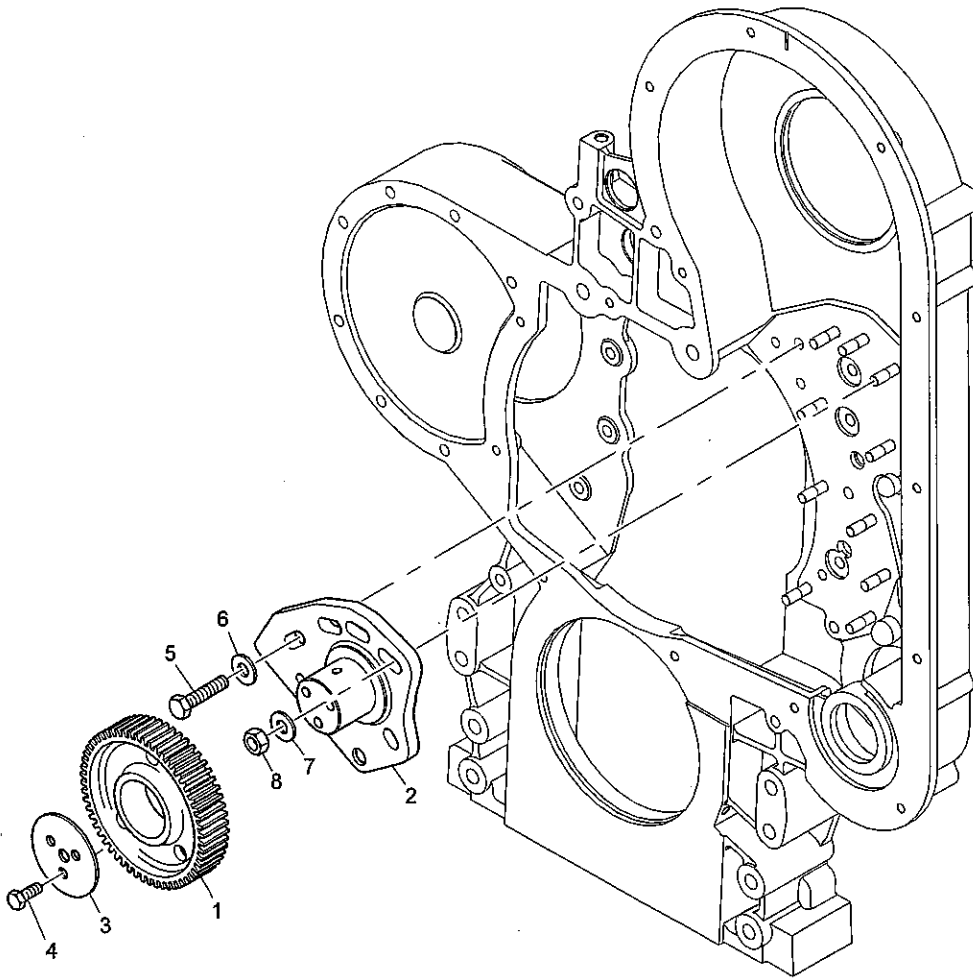


Timing Gears	Plate B
ACHS1194	

Item	Part No.	References	Qty.	Description	Notes
1	T400235	 a.	1	CAMSHAFT GEAR	
2		 T400235	1	CAMSHAFT GEAR	
3		 T400235	8	ROLLER	
4		 T400235	1	RETAINING PLATE	
5	—CH10609		8	BOLT	
6	—CH10641		1	DOWEL	
7	CH10616		6	BOLT	
8	CH10617		1	THRUST PLATE	
9	CH10618		3	BOLT	
10	CH10625		1	GASKET	
11	CH10620		1	SEAL - O RING	
12	CH10612		1	SEAL - O RING	
13	CH10627		1	ADAPTOR	

History					
a.					
1	CH10910		1	CAMSHAFT GEAR	

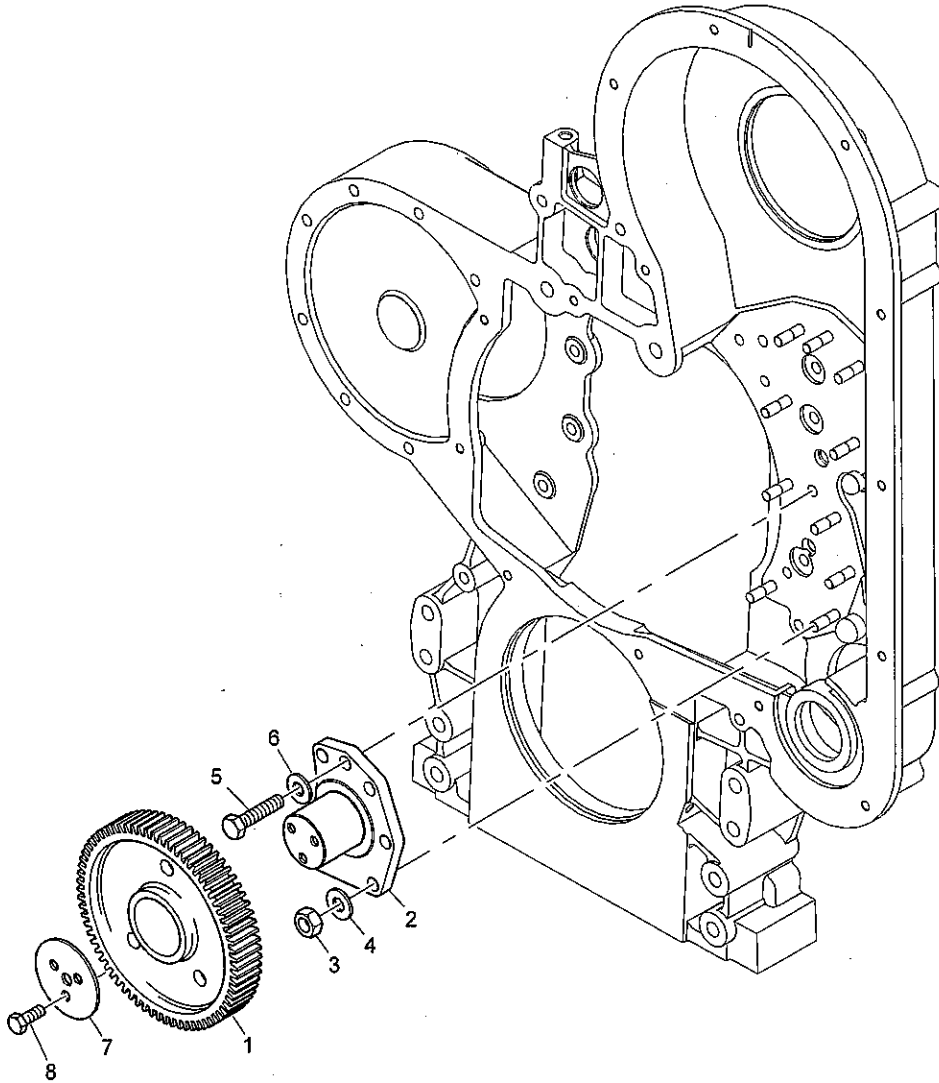
ACHS1194



Timing Gears	Plate C
	ACHS1194

Item	Part No.	References	Qty.	Description	Notes
1	CH10635		1	IDLER GEAR	
2	CH10623		1	STUB	
3	CH10614		1	THRUST PLATE	
4	CH10621		3	BOLT	
5	CH10609		1	BOLT	
6	CH10615		1	WASHER	
7	CH10615		5	WASHER	
8	CH10290		5	NUT	

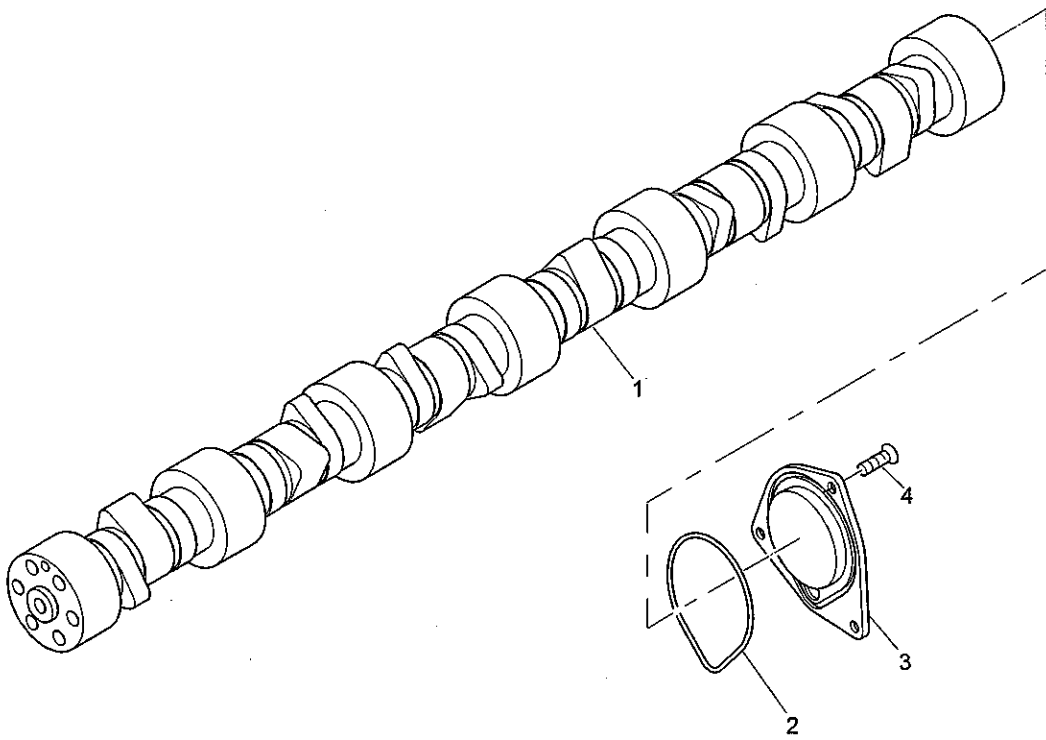
ACHS1194



Timing Gears	Plate D
ACHS1194	

Item	Part No.	References	Qty.	Description	Notes
1	CH10632		1	IDLER GEAR	
2	CH10624		1	STUB	
3	CH10290		5	NUT	
4	CH10615		5	WASHER	
5	CH10609		1	BOLT	
6	CH10615		1	WASHER	
7	CH10614		1	THRUST PLATE	
8	CH10621		3	BOLT	

ACHS1196

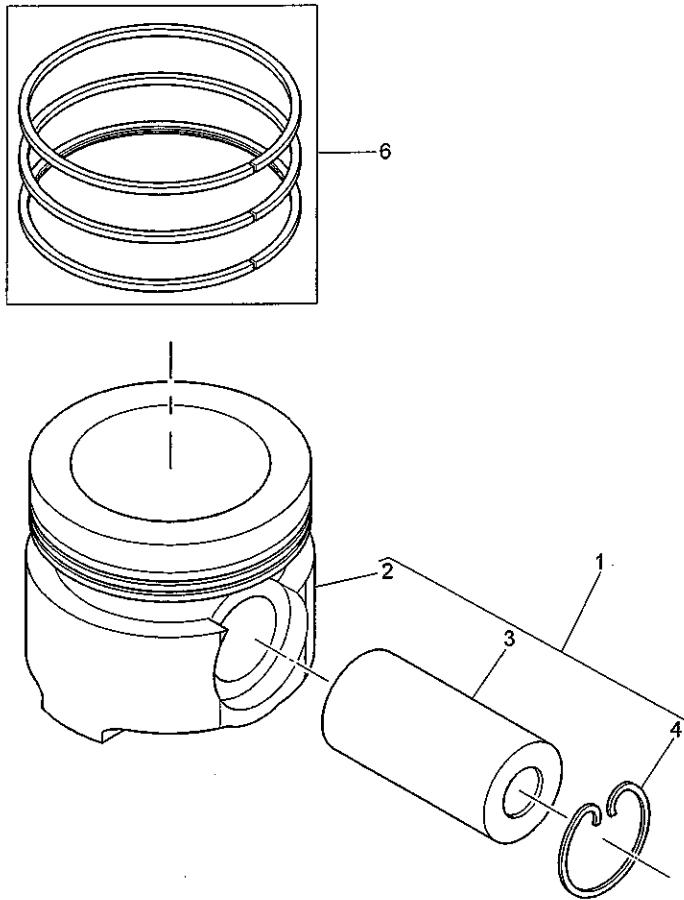


Camshaft	Plate A
ACHS1196	


Item	Part No.	References	Qty.	Description	Notes
1	CH11520		1	CAMSHAFT	
2	CH10587		1	SEAL - O RING	
3	CH10588		1	END COVER	
4	CH10589		3	SCREW METRIC	

→ U19661W

ADHD0055

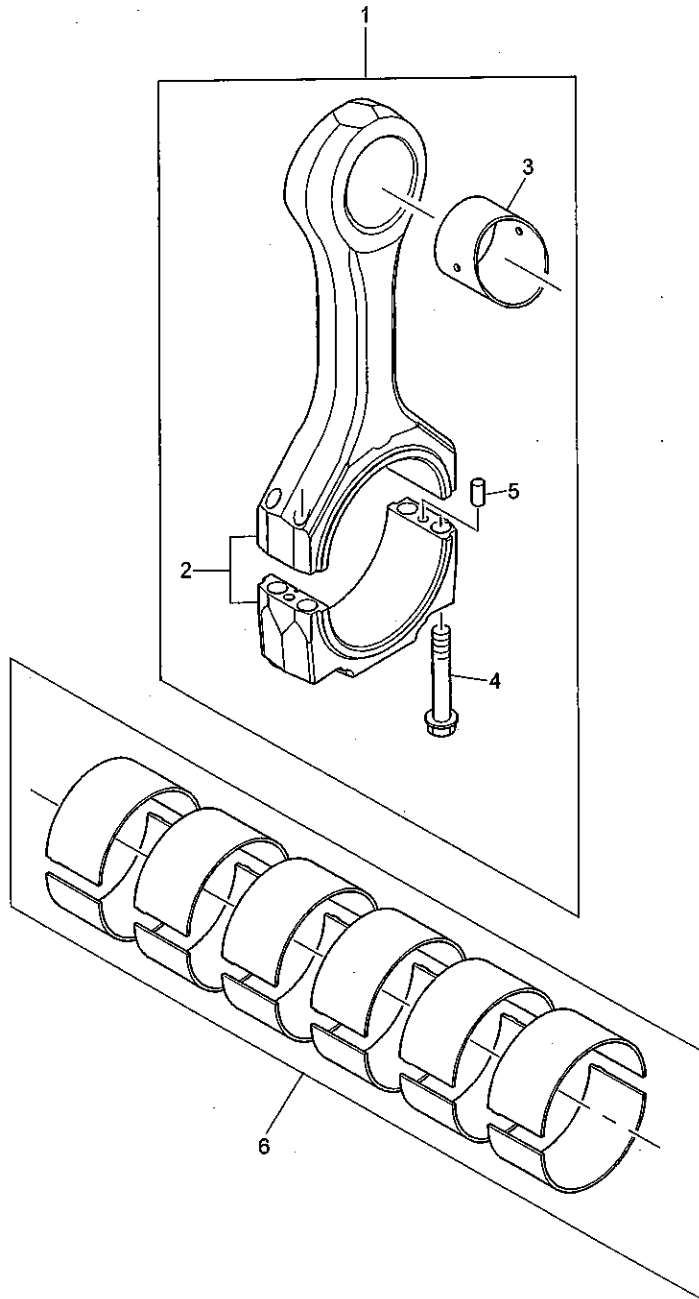


Pistons & Rings	Plate A
→ U19661W	ADHD0055

Item	Part No.	References	Qty.	Description	Notes
1	KRP3026	 a.	6	PISTON KIT	
2		⇒ KRP3026	1	PISTON	
3	—CH11503		1	GUDGEON PIN	
4	—CH11508		1	CIRCLIP	
5	—CH11508		1	CIRCLIP	
6	KRP3021		6	PISTON RING KIT	
7		⇒ KRP3021	1	PISTON RING	
8		⇒ KRP3021	1	PISTON RING	

History					
a.					
1	KRP3020	→ 01/01/2007	6	PISTON KIT	

ADHD0055

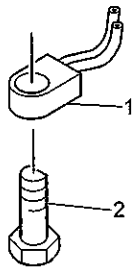


Connecting Rods & Big End Bearings	Plate A
ADHD0055	




Item	Part No.	References	Qty.	Description	Notes
1	CH11507		6	CON ROD ASSEMBLY	
2		⇒ CH11507	1	CON ROD	
3	—CV60967	⇒ CH11507	1	SMALL END BUSH	
4	—CH11684		4	CON ROD BOLT	
5	—CH11494		2	PIN	
6	KRP3022		1	BIG END BEARING KIT	
Service Options					
6	KRP3016/127		1	BIG END BRG KIT - U/S	
6	KRP3016/064		1	BIG END BRG KIT - U/S	

→ U19661W

ADHD0055



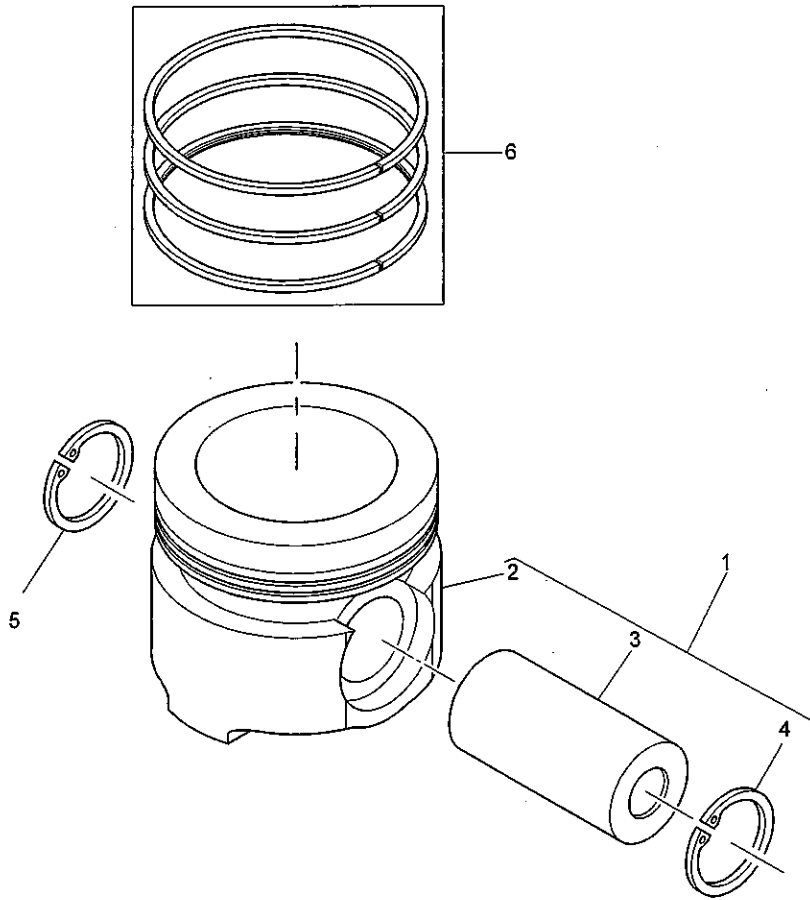
Piston Cooling Jets	Plate A
→ U19661W	ADHD0055

Item	Part No.	References	Qty.	Description	Notes
1	CH12344	 a.	6	PISTON COOLING JET	
		 b.			
2	CH10600	 b.	6	BOLT	

History					
a.					
1	T400197		6	PISTON COOLING JET	
b.					
1	CH12344		6	PISTON COOLING JET	
2	CH11468		6	BOLT	

↳ U19662W

ADHD0055



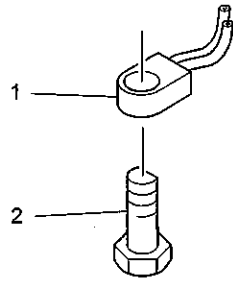
Pistons & Rings	Plate A
↳ U19662W	ADHD0055

Item	Part No.	References	Qty.	Description	Notes
1	KRP3032	☐ a.	6	PISTON KIT	
2		⇒ KRP3032	1	PISTON	
3	CH11503		1	GUDGEON PIN	
4	CH11992	☐ a.	1	CIRCLIP	
5	CH11992	☐ a.	1	CIRCLIP	
6	KRP3033		6	PISTON RING KIT	

History					
a.					
1	KRP3032		6	PISTON KIT	
4	CH11508		1	CIRCLIP	
5	CH11508		1	CIRCLIP	

↳ U19662W

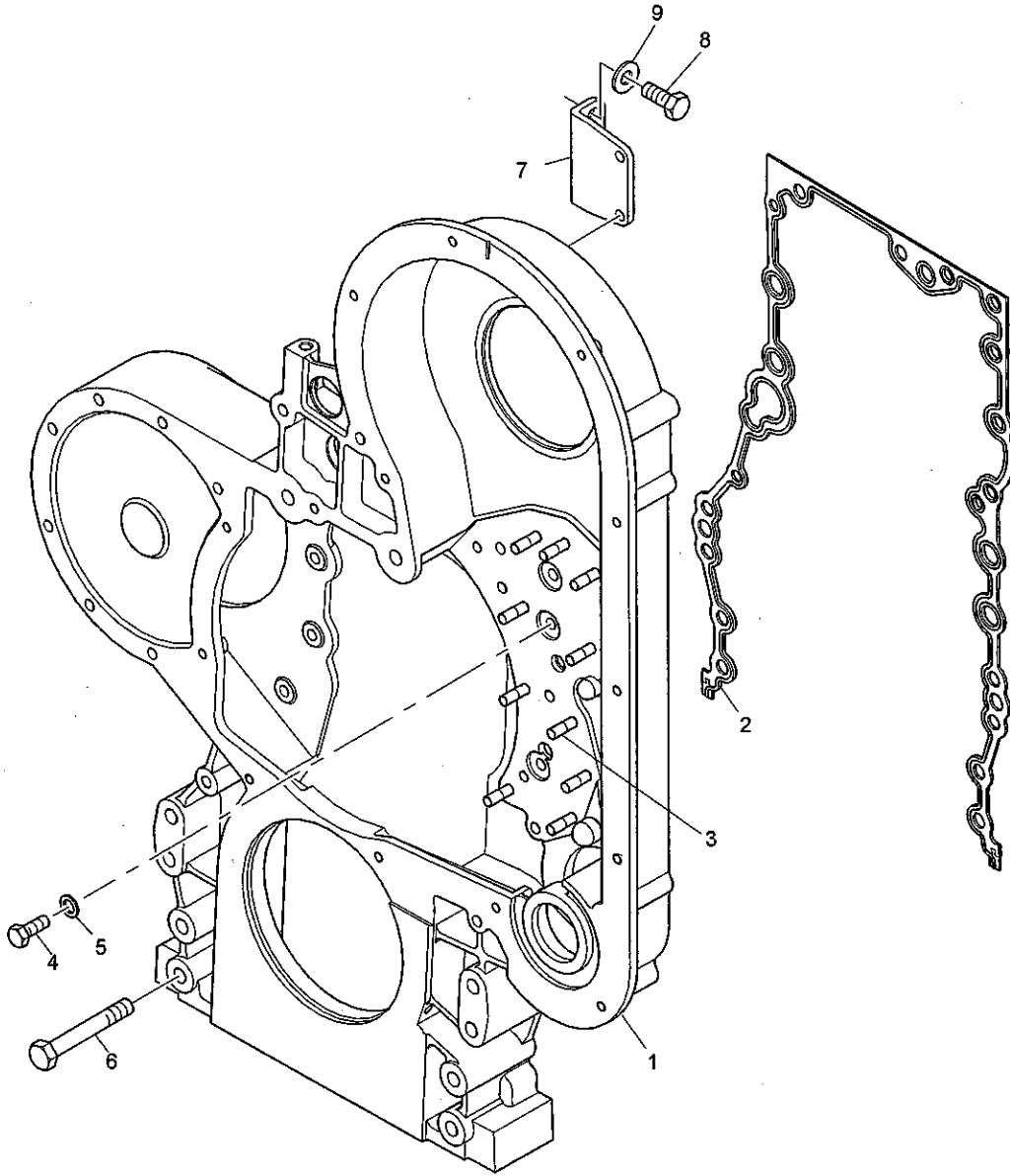
ADHD0055



Piston Cooling Jets		Plate A
↳ U19662W	ADHD0055	

Item	Part No.	References	Qty.	Description	Notes
1	T400197		6	PISTON COOLING JET	
2	CH10600		6	BOLT	

AEHS1071

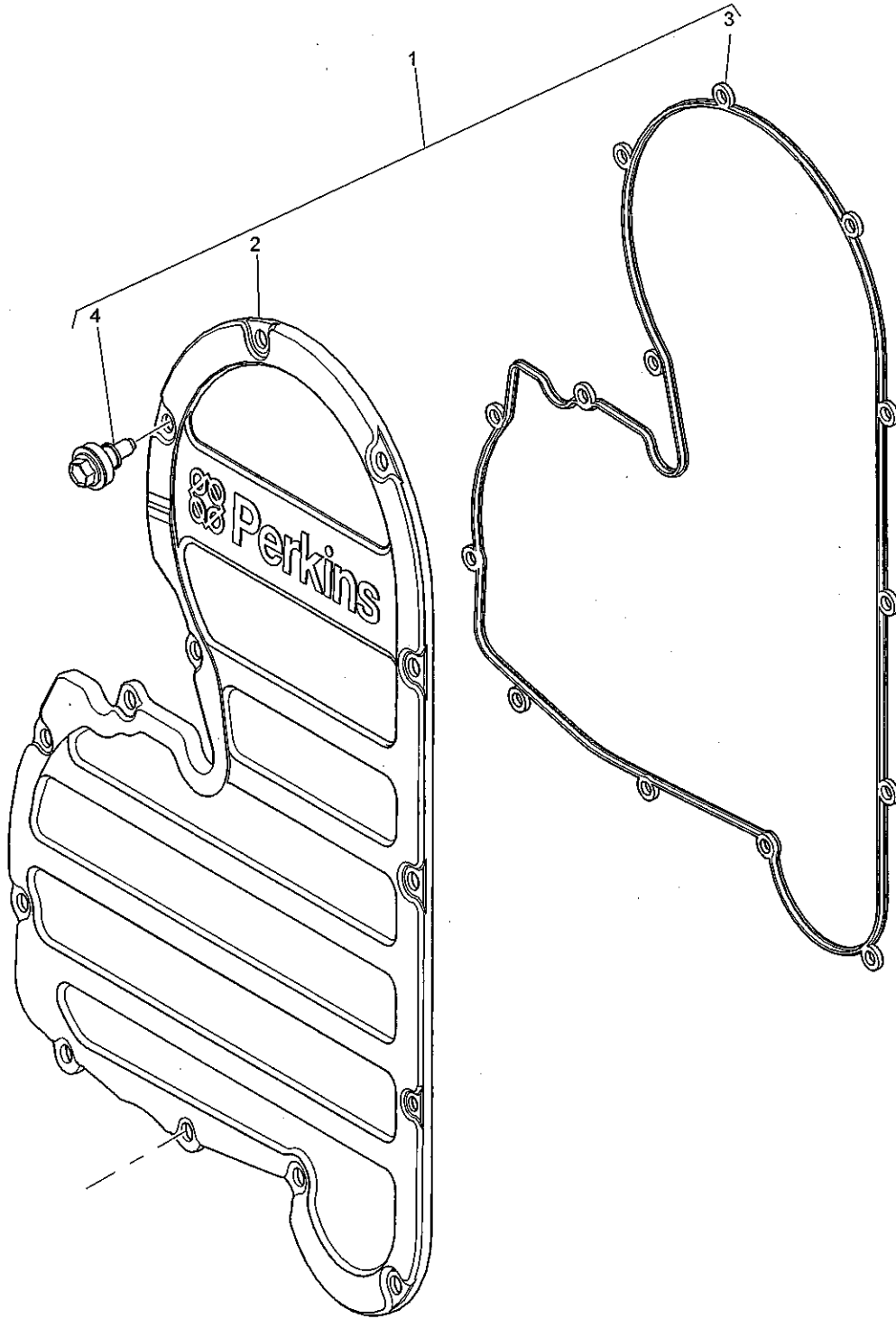


Timing Case	Plate A
AEHS1071	

Item	Part No.	References	Qty.	Description	Notes
1	CH11667		1	TIMING GEAR CASE	
2	CH10829		1	GASKET - TIMING CASE	
3	CH10953		10	STUD	
4	CH10815		8	BOLT	
5	CH10255	ⓐ a.	8	WASHER	
6	CH10791	ⓐ b.	9	BOLT	
7	CH10832		1	SUPPORT BRACKET	
8	CH11895	ⓐ a.	2	BOLT	
9	CH10615		2	WASHER	

History					
a.					
5	CH10541		8	WASHER	
8	CH10537		2	BOLT	
b.					
6	CH11476		9	BOLT	

AEHD0070

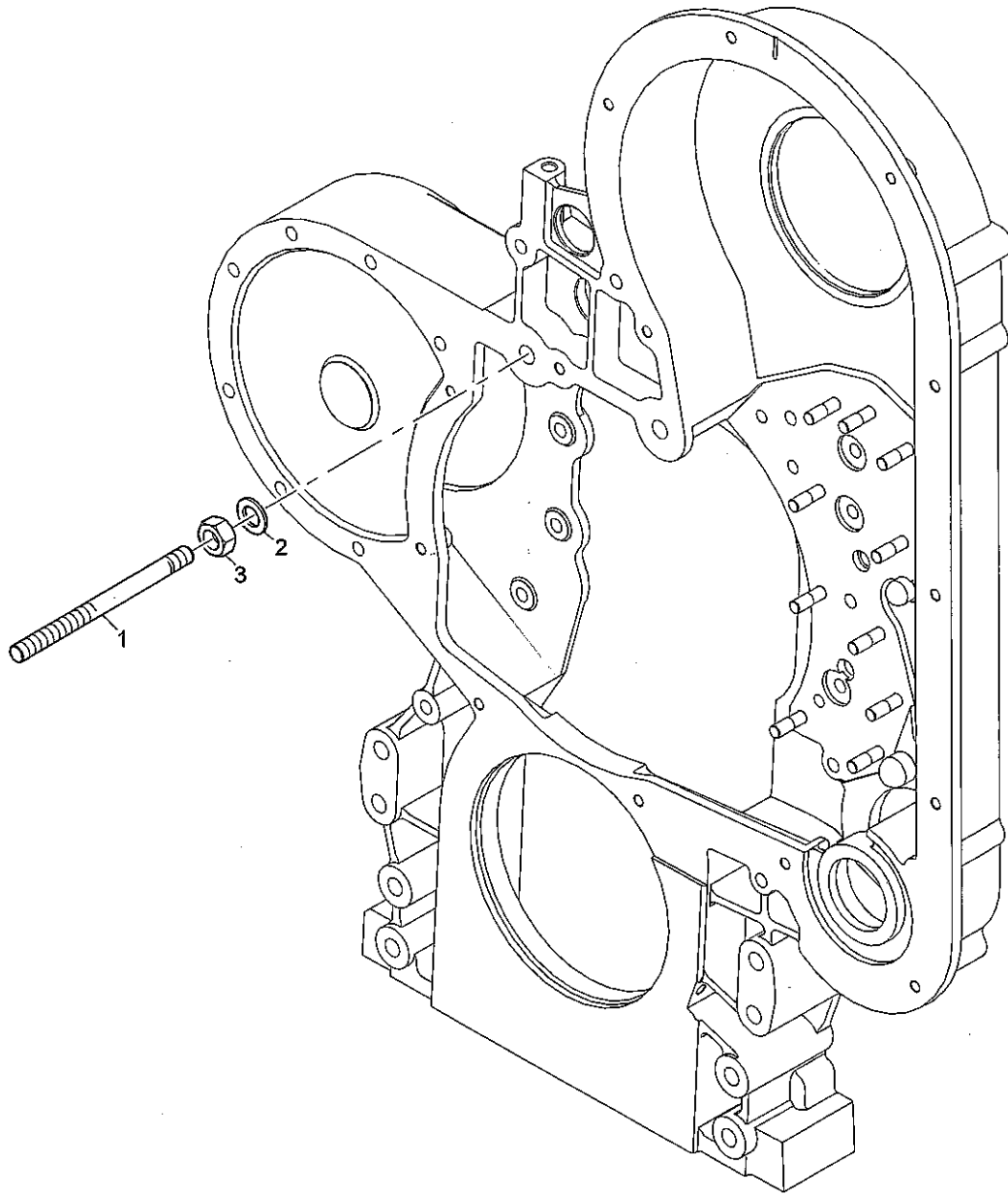


Timing Cover	Plate A
---------------------	----------------

	AEHD0070
--	-----------------

Item	Part No.	References	Qty.	Description	Notes
1	CH11848		1	TIMING COVER	
2	—	⇒ CH11848	1	TIMINGGEAR COVER	
3	—CH11352		1	SEAL	
4	—CH10946		14	SCREW	

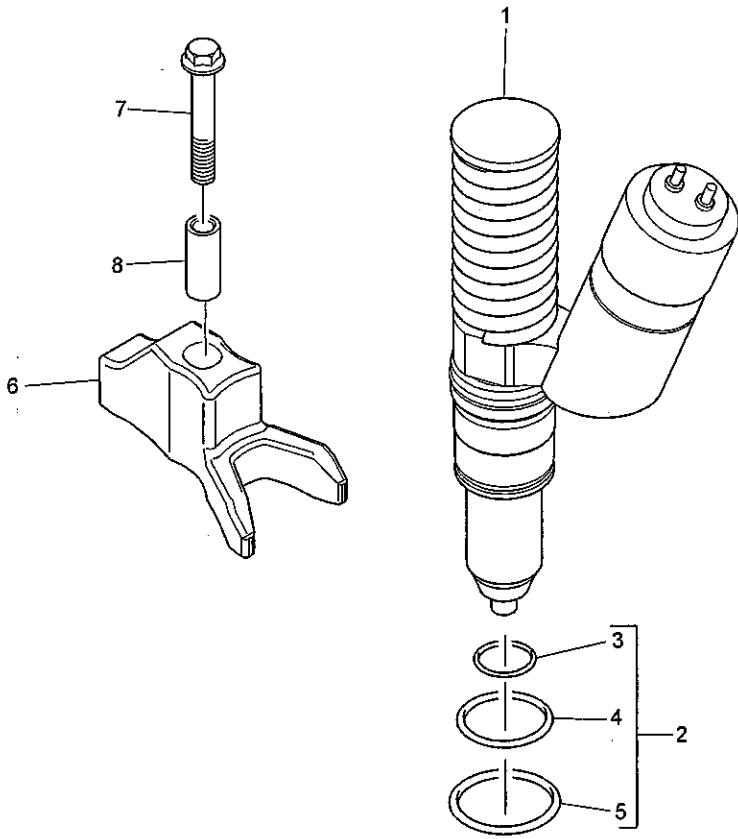
AEHS1070




Timing Case	Plate A
	AEHS1070

Item	Part No.	References	Qty.	Description	Notes
1	CH10952		2	STUD	
2	CH10099		2	WASHER	
3	CH10564		2	NUT	

AFHD0272

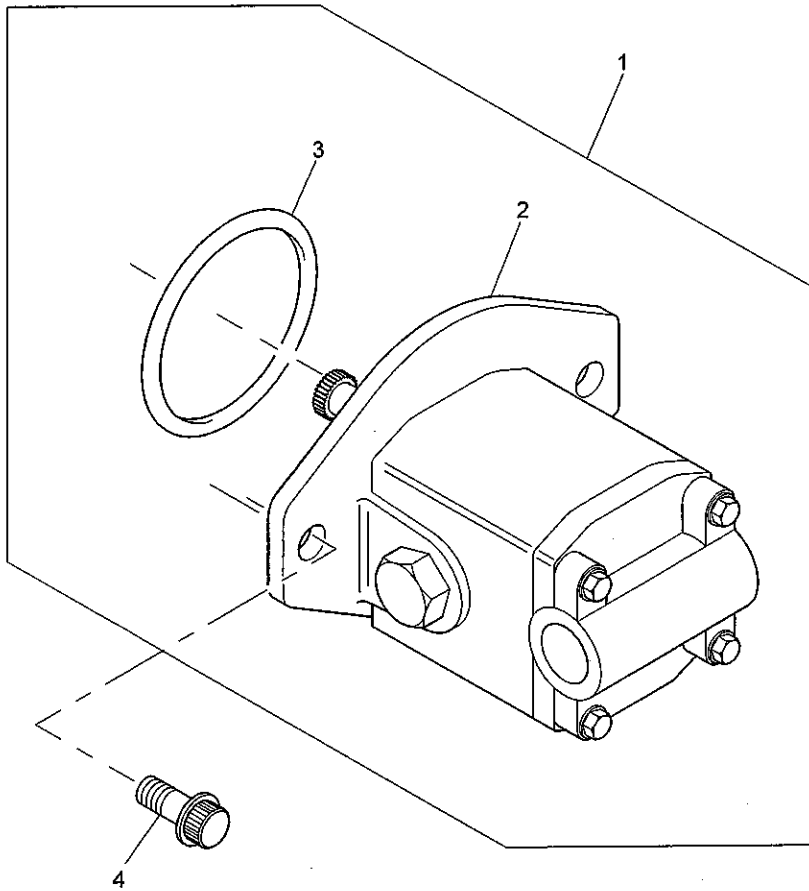


Atomisers	Plate A
AFHD0272	

Item	Part No.	References	Qty.	Description	Notes
1	CH12071	 a.	6	INJECTOR	
2	└─KRP1643		1	SEAL KIT	
3	├─	⇒ KRP1643	1	SEAL - INJECTOR	
4	├─	⇒ KRP1643	1	SEAL - INJECTOR	
5	├─	⇒ KRP1643	1	SEAL - INJECTOR	
6	CH10790		6	CLAMP	
7	CH10791		6	BOLT	
8	CH10792		6	SPACER	
Service Options					
1	R/CH12071		6	INJECTOR - EXCHANGE	

History					
a.					
1	CH12341		6	INJECTOR	

AFHD0269

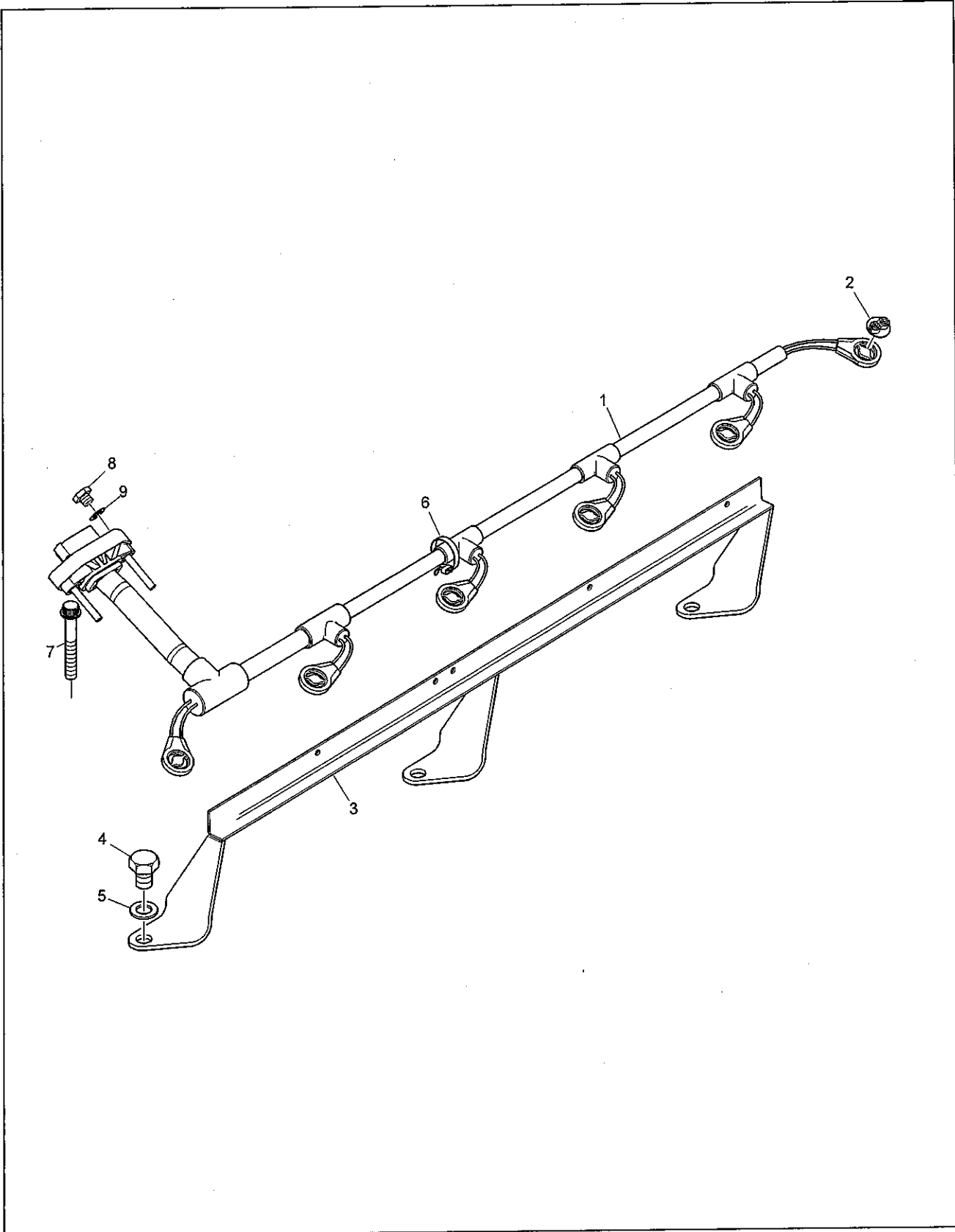


Lift Pump	Plate A
AFHD0269	

Item	Part No.	References	Qty.	Description	Notes
1	KRP1721	ⓐ a.	1	LIFT PUMP	
2		⇒ KRP1721	1	LIFT PUMP	
3	└─CH10340		1	SEAL - O RING	
4	CH10582		2	BOLT	

History					
a.					
1	KRP1679		1	LIFT PUMP	

AFHS1560

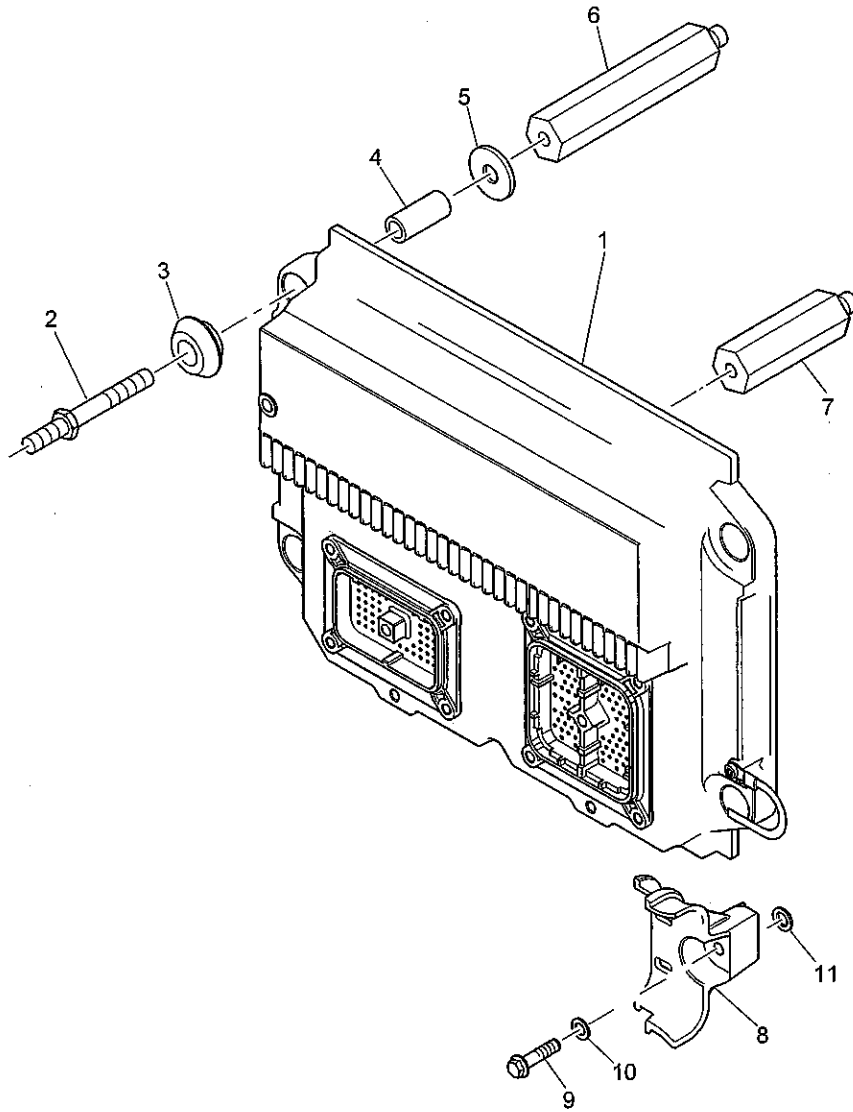


Wiring Harness	Plate A
AFHS1560	

Item	Part No.	References	Qty.	Description	Notes
1	CH10974		1	INJECTOR HARNESS	
2	CH10195		6	CAP	
3	CH10977		1	MOUNTING BRACKET	
4	CH10938		3	BOLT	
5	CH10099		3	WASHER	
6	CH10827		5	CABLE TIE	
7	T400187	☐ a.	12	BOLT	
8	T400186	☐ a.	2	BOLT	
9	CH10303		2	WASHER	

History					
a.					
7	CH10566		12	BOLT	
8	CH10160		2	BOLT	

AFHD0268

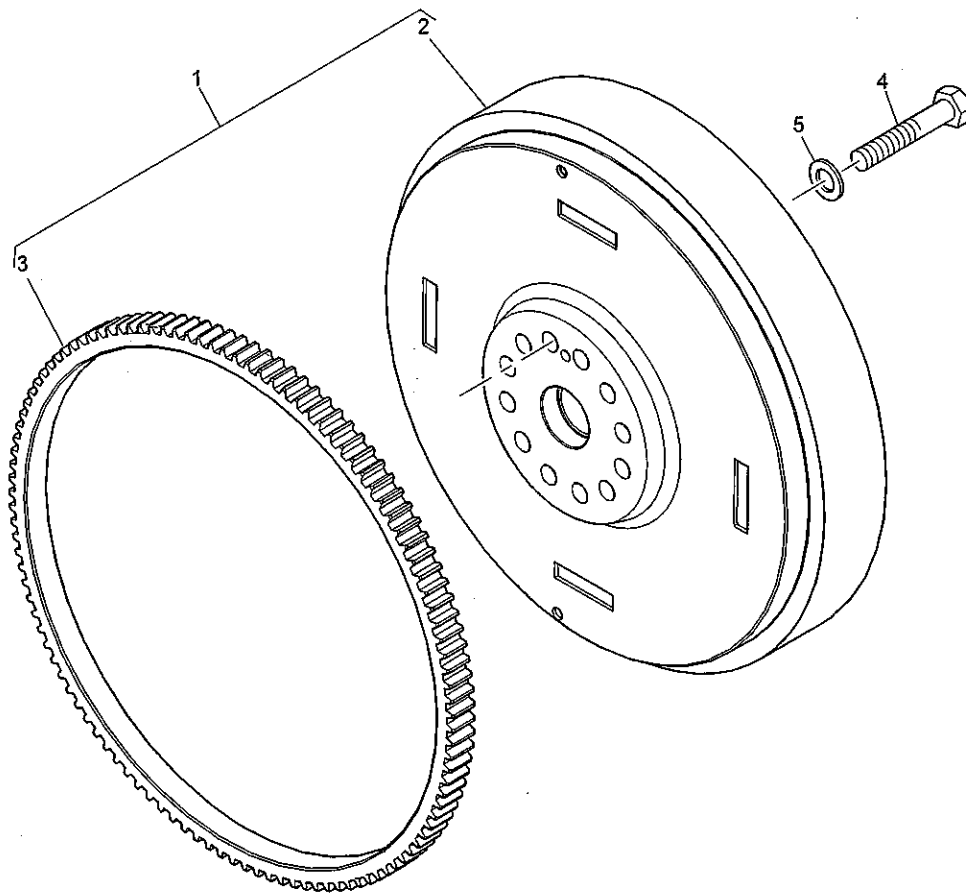


Engine Control Module	Plate A
AFHD0268	

Item	Part No.	References	Qty.	Description	Notes
1	R/CH12895	ⓐ a.	1	ENGINE CONTROL MODULE	
2	CH10578		4	STUD	
3	CH10272		8	VIBRATION MOUNT	
4	CH10108		4	SPACER	
5	CH10279		8	WASHER	
6	CH10576		1	SUPPORT	
7	CH10577		1	SUPPORT	
8	CH11932		2	BRACKET	
9	CH11931		2	UNC BOLT	
10	CH11933		2	PLAIN WASHER	
11	CH10277		2	WASHER	

History					
a.					
1	R/CH12104		1	ENGINE CONTROL MODULE	

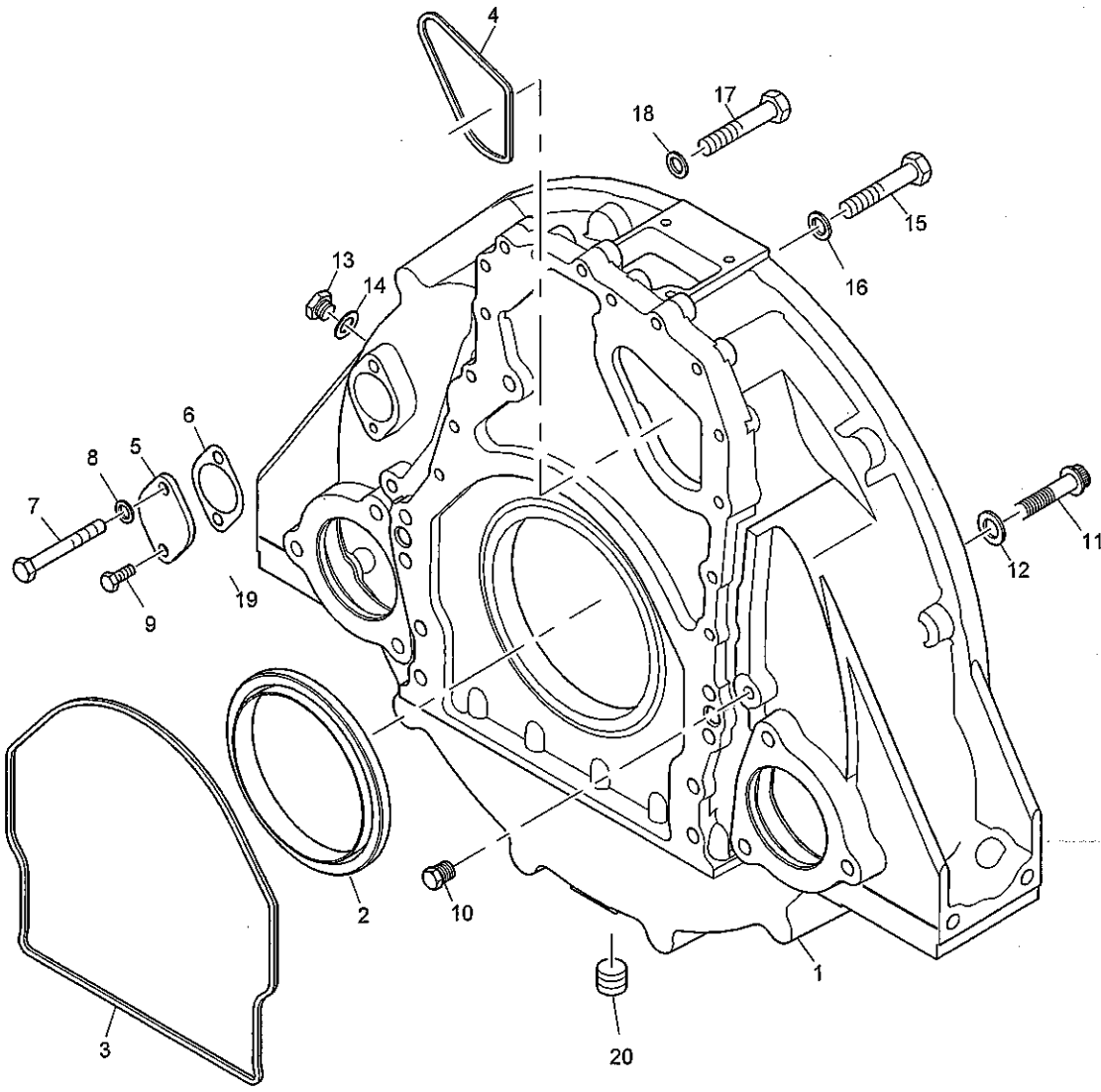
CDHS1103



Flywheel & Starter Ring	Plate A
CDHS1103	

Item	Part No.	References	Qty.	Description	Notes
1	CH11591		1	FLYWHEEL ASSEMBLY	
2	└	⇒ CH11591	1	FLYWHEEL	
3	└ CH11551		1	STARTER RING GEAR	
4	CH11590		12	BOLT	
5	CH11589		12	WASHER	

CDHS1102



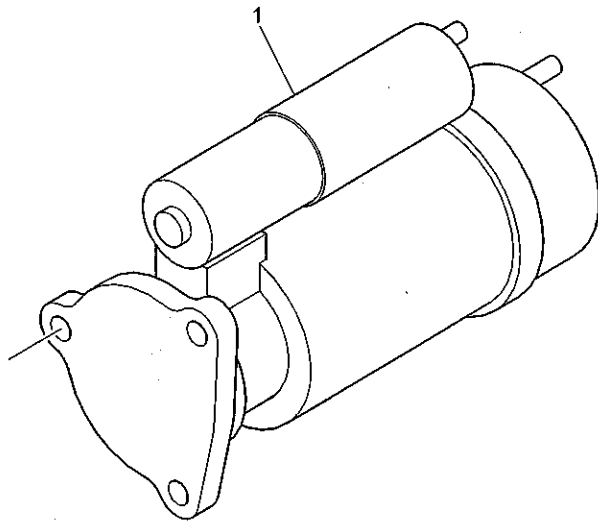
CDHS1102

Item	Part No.	References	Qty.	Description	Notes
1	CH12371	☐ b.	1	FLYWHEEL HOUSING	
2	CH11304		1	SEAL - REAR END OIL	
3	CH12062		1	SEAL	
4	CH12063		1	SEAL	
5	CH10539		1	BLANKING COVER	
6	CH10540		1	GASKET	
7	CH10538		1	BOLT	
8	CH10255	☐ a.	2	WASHER	
9	CH11895	☐ a.	1	BOLT	
10	CH10262		2	PLUG	
11	CH11587		9	BOLT	
12	CH10099		9	WASHER	
13	CH10939		1	DRAIN PLUG	
14	CH10940		1	GASKET	
15	CH11585		8	BOLT	
16	CH10255	☐ a.	8	WASHER	
17	CH11586		7	BOLT	
18	CH10255	☐ a.	7	WASHER	
19	CH11588		1	PLUG	
20	CH10220		1	PLUG	

History

a.					
8	CH10541		2	WASHER	
9	CH10537		1	BOLT	
16	CH10541		8	WASHER	
18	CH10541		7	WASHER	
b.					
1	CH11584		1	FLYWHEEL HOUSING	

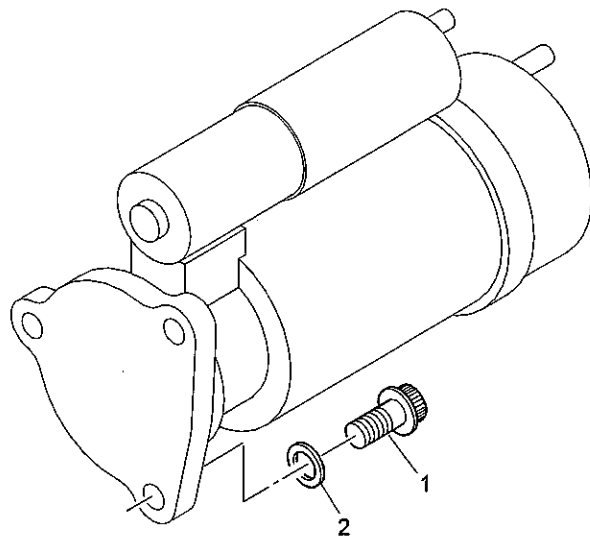
E1BFF



Starter Motor	Plate A
E1BFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11441	↙	1	STARTER MOTOR	

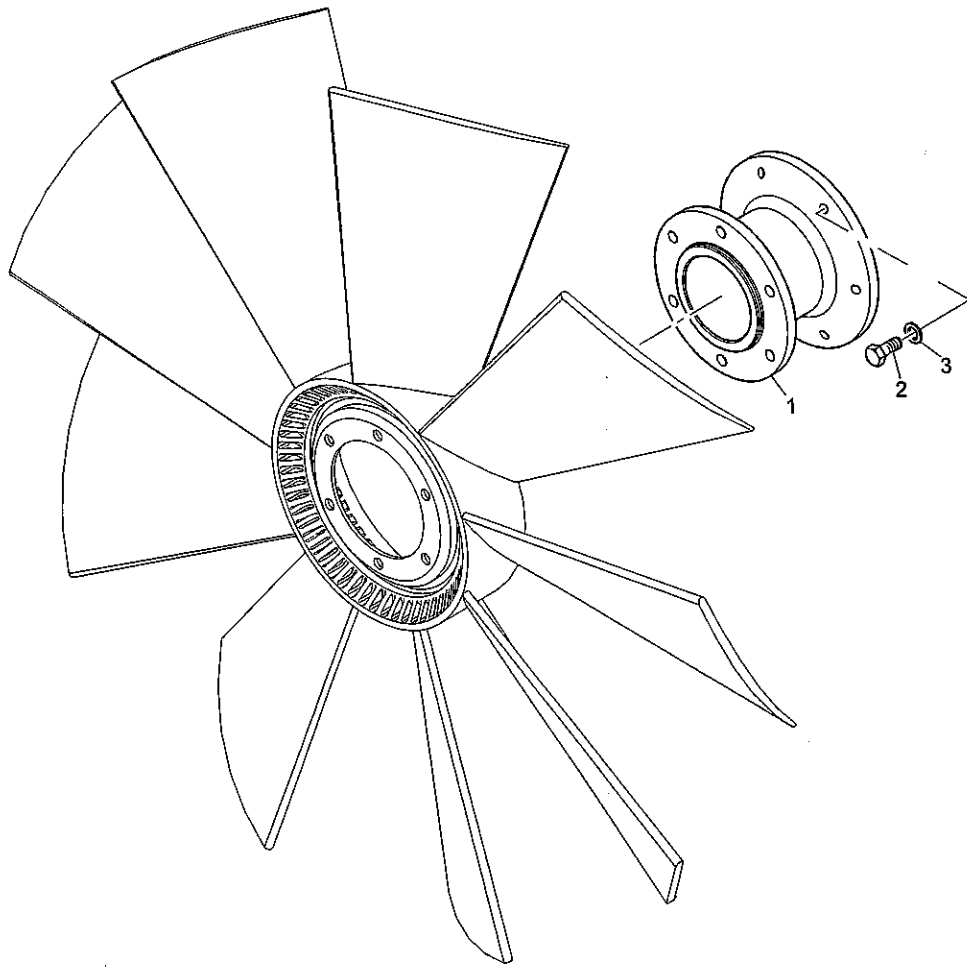
E1AFF



Starter Motor - Fixings	Plate A
E1AFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH10237		3	BOLT	
2	0920007		1	WASHER	

F1CFF

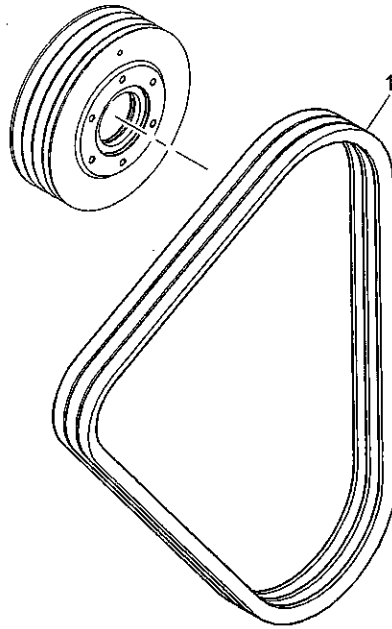


Fan Adaptor	Plate A
FICFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11026		1	FAN ADAPTOR	
2	ST43552		6	BOLT	
3	CH10255	Q a.	6	WASHER	

History					
a.					
3	2131A010		6	WASHER	

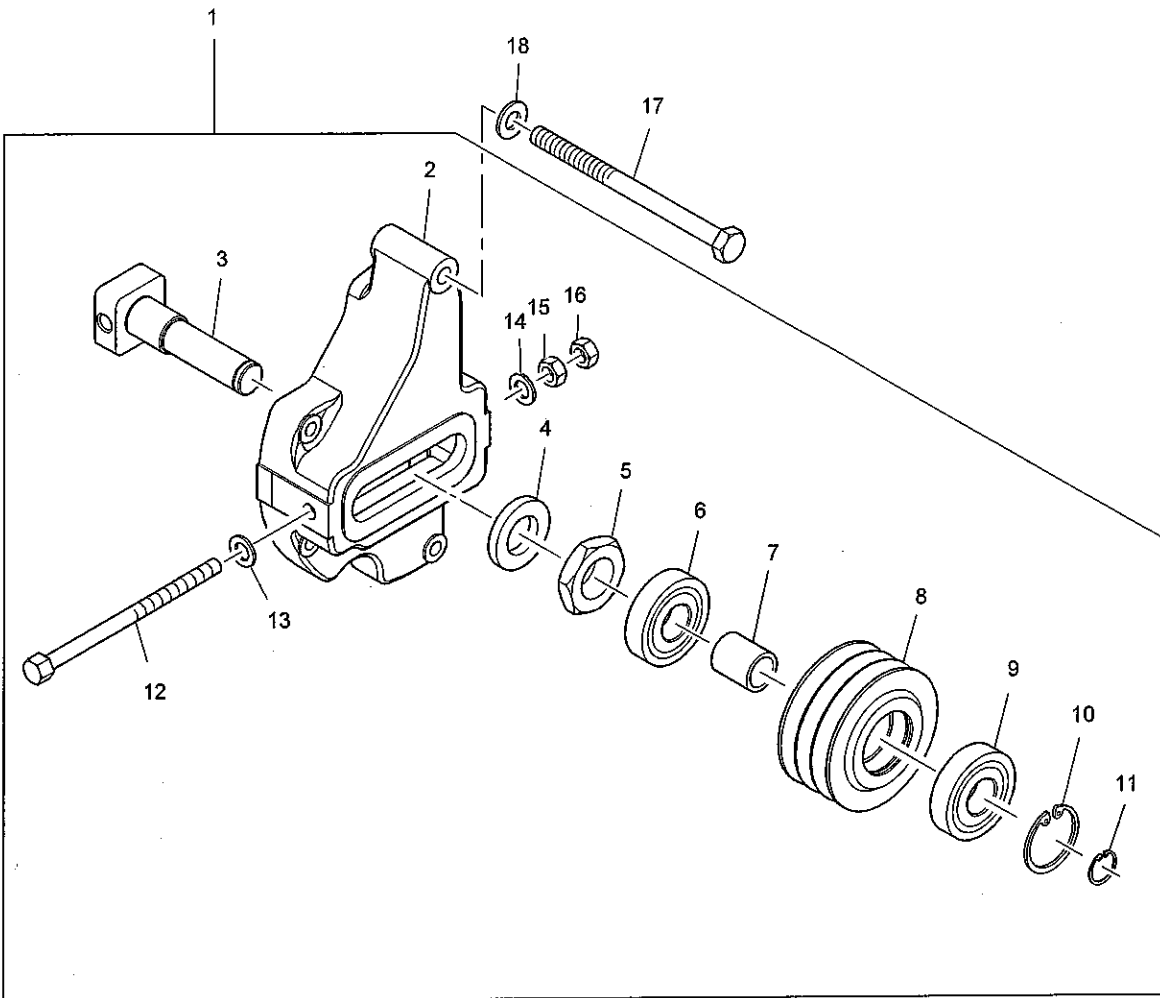
F1BFF





Fan Belt	Plate A
F1BFF	

Item	Part No.	References	Qty.	Description	Notes
1	CHI1186		1	BELT	

FIAFF



F1AFF

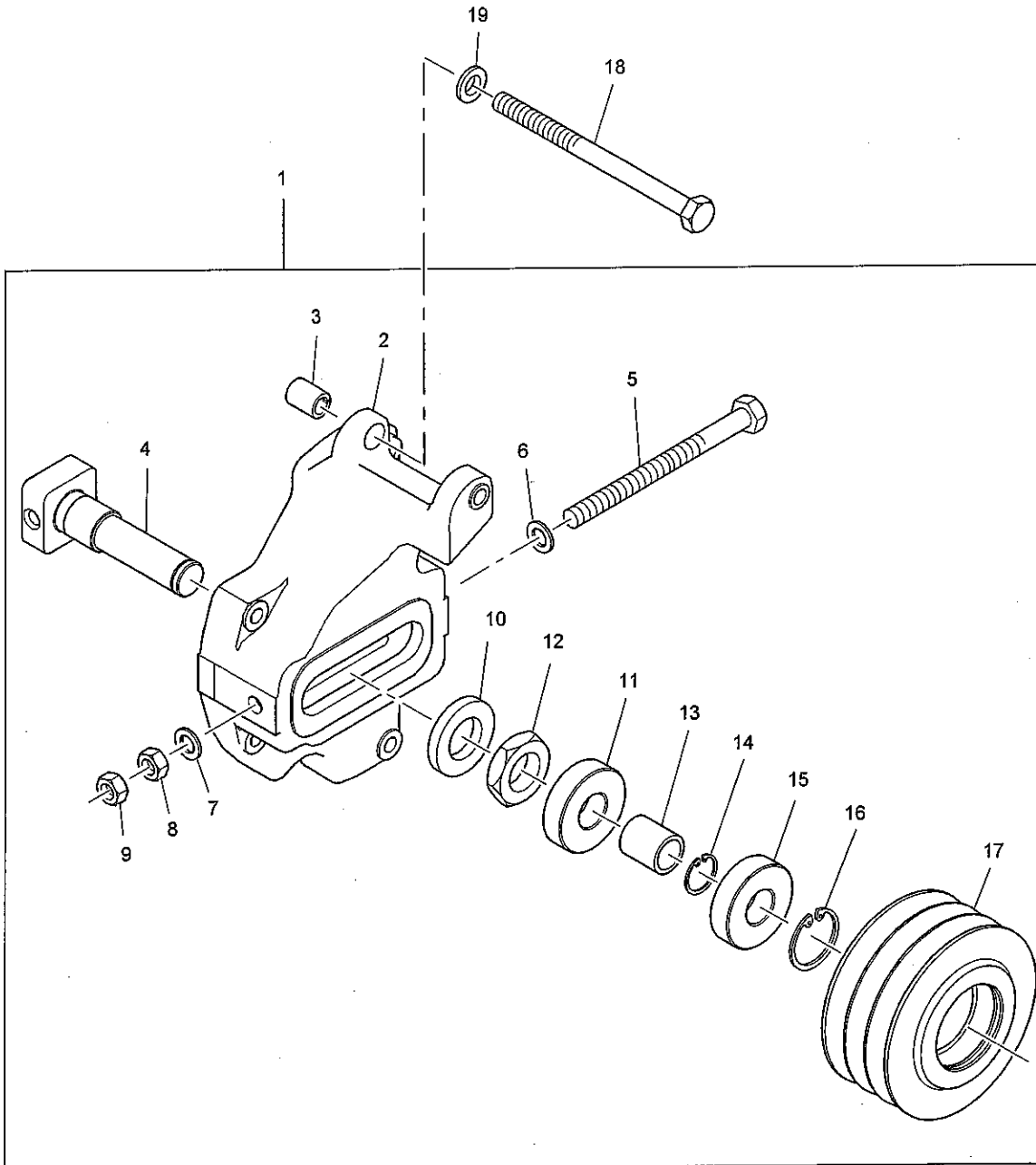
Item	Part No.	References	Qty.	Description	Notes
1	CH11024	 a.	1	TENSIONER ARM	
2	—	 CH11024	1	HOUSING	
3	—CV17729		1	SHAFT	
4	—CV17731		1	WASHER	
5	—CV5324		1	NUT	
6	—CH11444		1	BALL BEARING	
7	—CV17765		1	SLEEVE	
8	—CV17732		1	TENSIONER PULLEY	
9	—CH11444		1	BALL BEARING	
10	—2722A022		1	CIRCLIP	
11	—2721351		1	CIRCLIP	
12	—CV19793		1	BOLT	
13	—2131A012		1	WASHER	
14	—2131A012		1	WASHER	
15	—2318A210		1	NUT	
16	—2318A210		1	NUT	
17	CH10813		4	BOLT	
18	ST15903		4	WASHER	

History

a.

1	CH11024		1	TENSIONER ARM	
	—2318A210		2	NUT	
	—2131A012		2	WASHER	
	—CH11444		2	BALL BEARING	

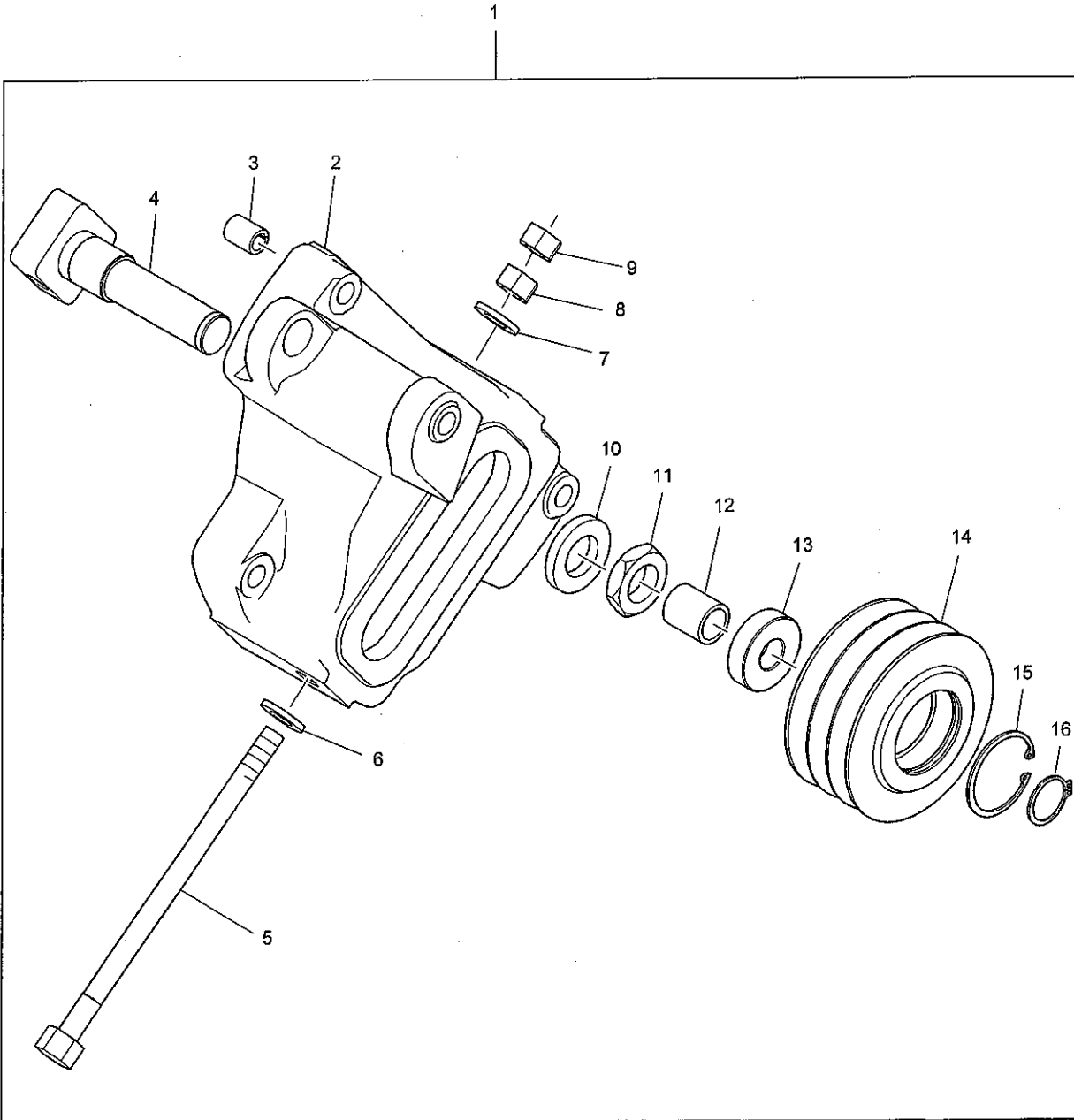
FIAFF



F1AFF

Item	Part No.	References	Qty.	Description	Notes
1	CH12832		1	TENSIONER ARM	
2	—	⇒ CH12832	1	TENSIONER	
3	—CH12834		1	BUSH	
4	—		1	SHAFT	
5	—		1	BOLT	
6	—2131A012		1	WASHER	
7	—2131A012		1	WASHER	
8	—2318A210		1	NUT	
9	—2318A210		1	NUT	
10	—		1	WASHER	
11	—CH11444		1	BALL BEARING	
12	—		1	NUT	
13	—		1	SLEEVE	
14	—2722A022		1	CIRCLIP	
15	—CH11444		1	BALL BEARING	
16	—2721351		1	CIRCLIP	
17	—CH12872		1	TENSIONER PULLEY	
18	CH10813		4	BOLT	
19	ST15903		4	WASHER	

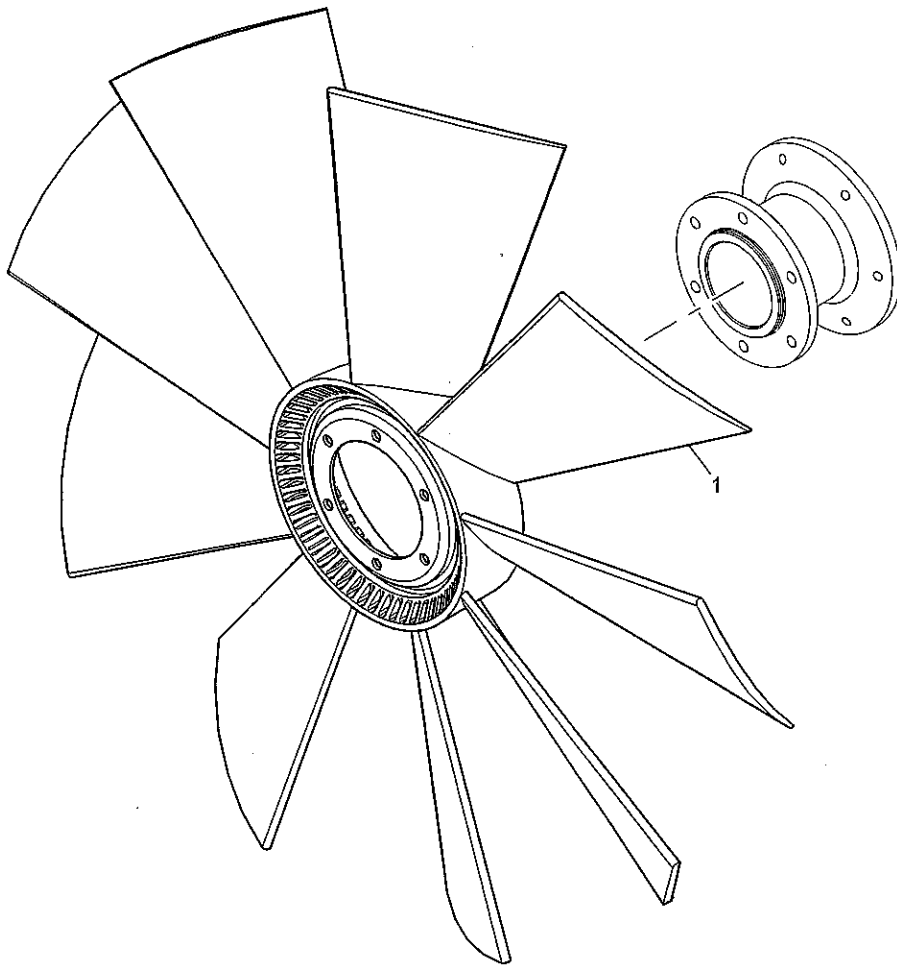
F1AFF



FIAFF

Item	Part No.	References	Qty.	Description	Notes
1	T400228		1	TENSIONER ARM	
2	—		1	HOUSING	
3	—CH12834		1	BUSH	
4	—	⇒ T400228	1	SHAFT	
5	—	⇒ T400228	1	BOLT	
6	—CH11604		1	WASHER	
7	—CH11604		1	WASHER	
8	—T400231		1	NUT	
9	—T400231		1	NUT	
10	—	⇒ T400228	1	WASHER	
11	—	⇒ T400228	1	NUT	
12	—	⇒ T400228	1	SLEEVE	
13	—CH11444		2	BALL BEARING	
14	—CH12872		1	TENSIONER PULLEY	
15	—T400229		1	CIRCLIP	
16	—T400230		1	CIRCLIP	

F1DFF

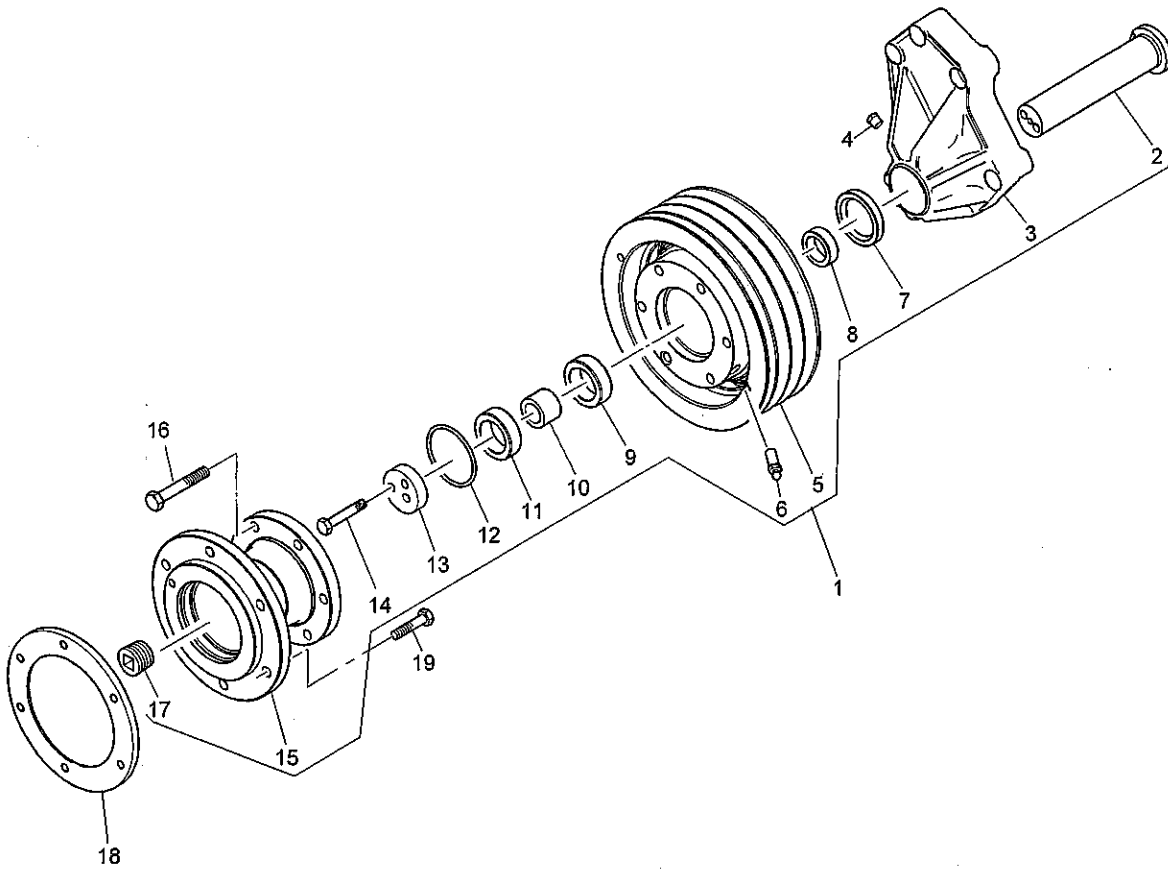


Fan	Plate A
F1DFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11691		1	FAN	

History					
a.					
	CH10541		6	WASHER	
	ST44456		6	BOLT	

F1FFF



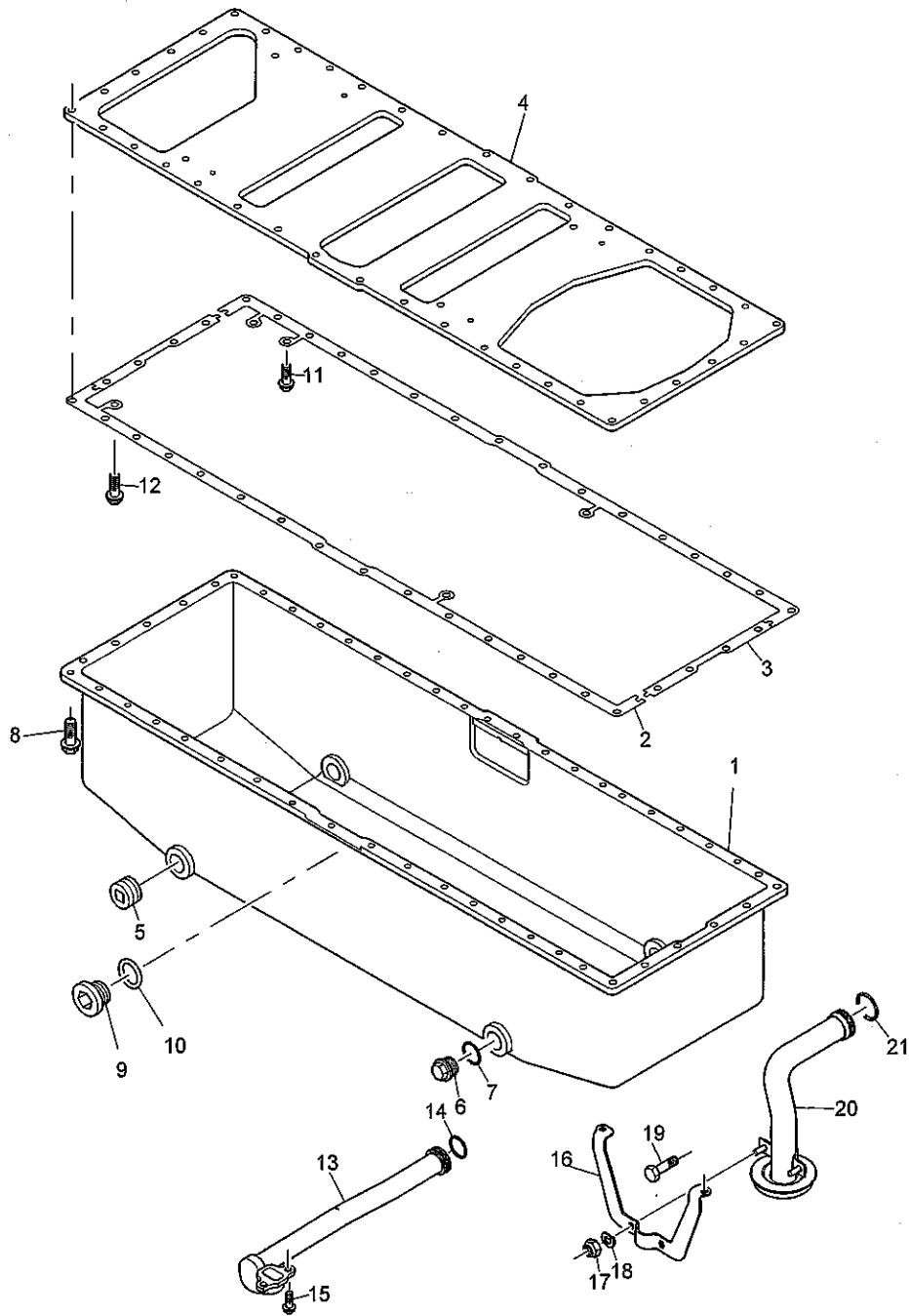
Fan Drive	Plate A
F1FFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH12385	☐ a.	1	FANDRIVE	(A)
2	└CH12391		1	SHAFT	
3	└	⇒ CH12385	1	FAN DRIVE HOUSING	
4	└CH12908	☐ a.	1	RELIEF VALVE	
5	└CH12388		1	FAN DRIVE PULLEY	257.5
6	└CH12374		1	BALL	
7	└CH12378		1	SEAL	
8	└CH12379		1	SPACER	
9	└CH12382		1	BALL BEARING	
10	└CH12383		1	SPACER	
11	└CH12375		1	BALL BEARING	
12	└CH12384		1	SEAL - O RING	
13	└CH12380		1	WASHER	
14	└CH12377		2	BOLT	
15	└CH12390		1	ADAPTOR	
16	└CH10585		6	BOLT	
17	└CH10220		1	PLUG	
18	CH12433		1	RING	
19	2315C066		6	SCREW	

History					
a.					
1	CH12385		1	FANDRIVE	(A)
4	└CH12376		1	RELIEF VALVE	

Footnotes					
(A)	CHECK YOUR ENGINE SPECIFICATION BEFORE ORDERING				

GBHD1002

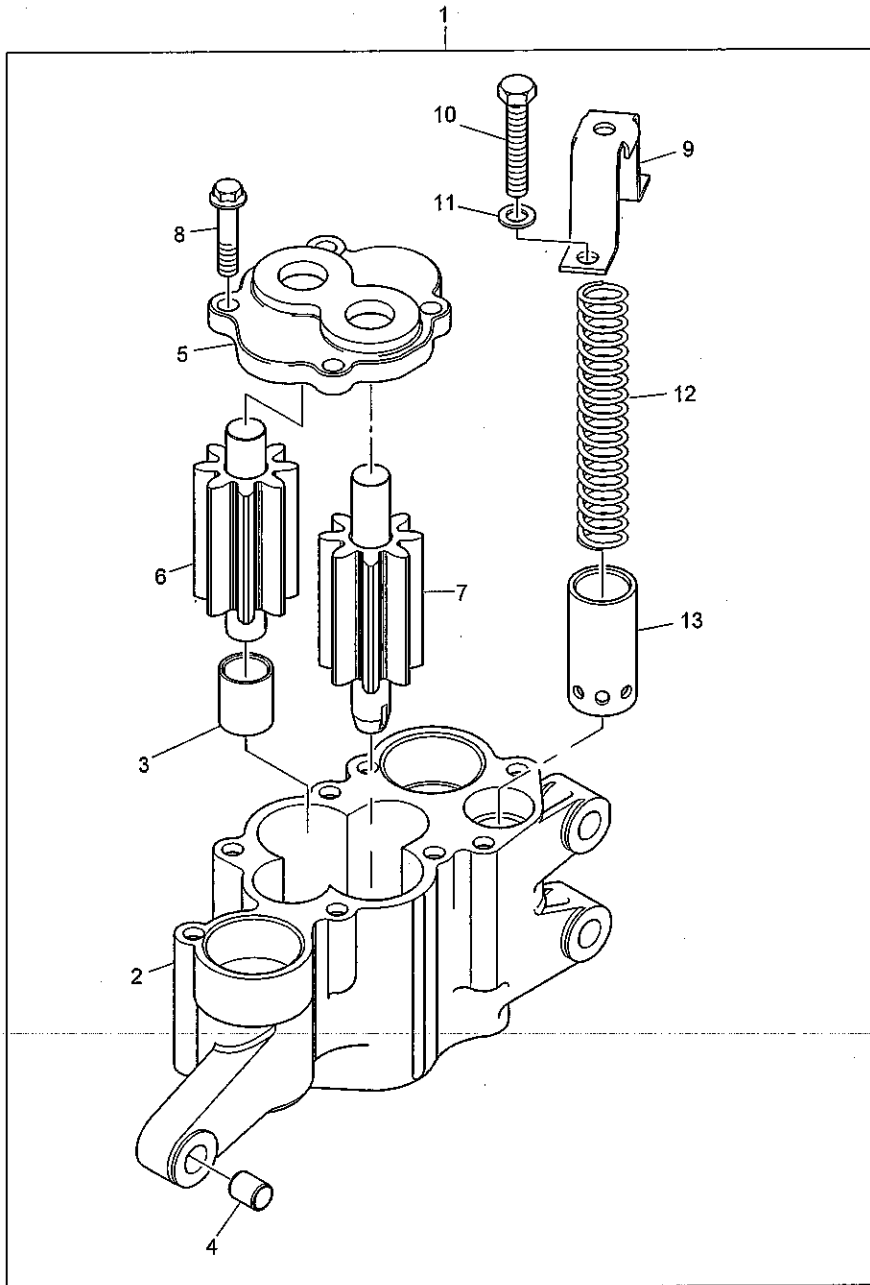


Sump	Plate A
GBHD1002	

Item	Part No.	References	Qty.	Description	Notes
1	CH11569		1	SUMP	
2	CH12739	☐ b.	1	GASKET - SUMP	
3	CH12739	☐ b.	1	GASKET - SUMP	
4	CH11570		1	PLATE	
5	CH10259		3	PLUG	
6	CH11571		1	DRAIN PLUG	
7	T400201	☐ a.	1	SEAL - O RING	
8	CH10748		40	BOLT	
9	CH10285	☐ a.	1	PLUG	
10	T409314	☐ a.	1	SEAL - O RING	
11	CH10567		2	BOLT	
12	CH10567		3	BOLT	
13	CH10786		1	OIL PIPE	
14	CH11906		1	SEAL - O RING	
15	CH10550		2	BOLT	
16	CH10855		1	SUPPORT BRACKET	
17	CH10785		2	LOCKNUT	
18	CH10615		2	WASHER	
19	CH11645		1	BOLT	
20	CH11903		1	PIPE - OIL SUCTION	
21	CH11905		1	SEAL - O RING	

History					
a.					
7	CH11573		1	SEAL - O RING	
9	CH10282		1	PLUG	
10	CH10665		1	SEAL - O RING	
	CH10132		2	SEAL - O RING	
b.					
2	CH11904		1	GASKET - SUMP	
3	CH11904		1	GASKET - SUMP	

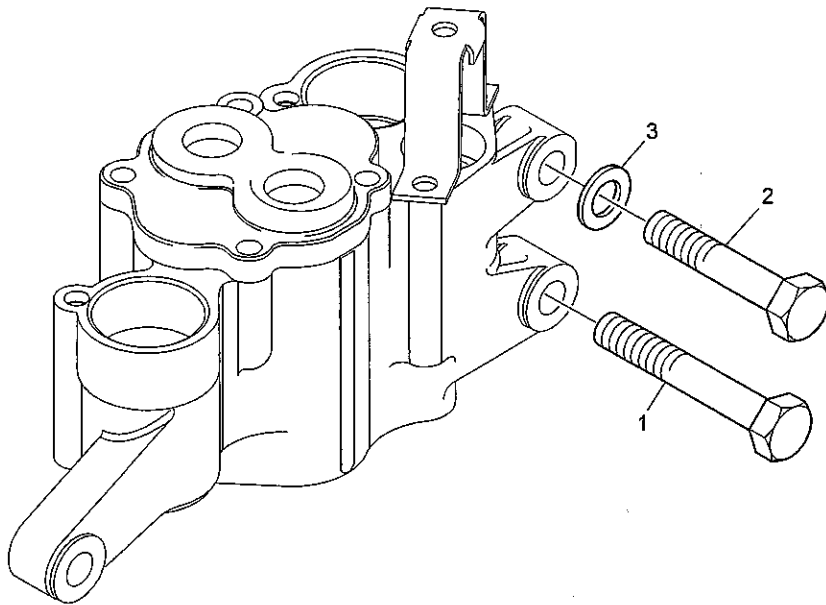
GBHS1082



Oil Pump	Plate A
GBHS1082	

Item	Part No.	References	Qty.	Description	Notes
1	CH10860		1	OIL PUMP	
2	—	⇒ CH10860	1	PUMP BODY	
3	—CH10746		2	BUSH	
4	—CH10747		2	DOWEL	
5	—CH10861		1	END COVER	
6	—CH10862		1	SHAFT	
7	—CH10863		1	DRIVE SHAFT	
8	—CH10748		4	BOLT	
9	—CH10736		1	RETAINER	
10	—CH10735		2	BOLT	
11	—CH10541		2	WASHER	
12	—CH10737		1	SPRING	
13	—CH10738		1	PLUNGER	
Service Options					
1	R/CH10860		1	OIL PUMP - EXCHANGE	

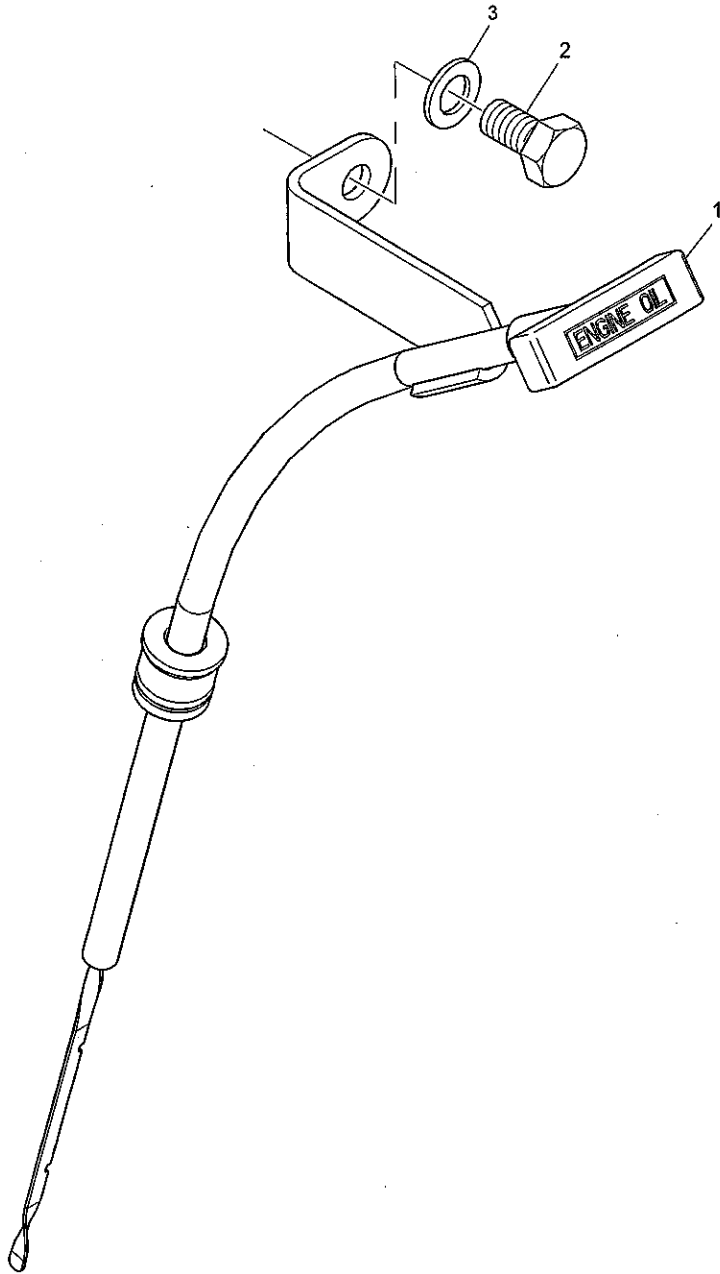
GBHS1081



Oil Pump - Fixings	Plate A
GBHS1081	

Item	Part No.	References	Qty.	Description	Notes
1	CH10585		2	BOLT	
2	CH10586		1	BOLT	
3	CH10541		3	WASHER	

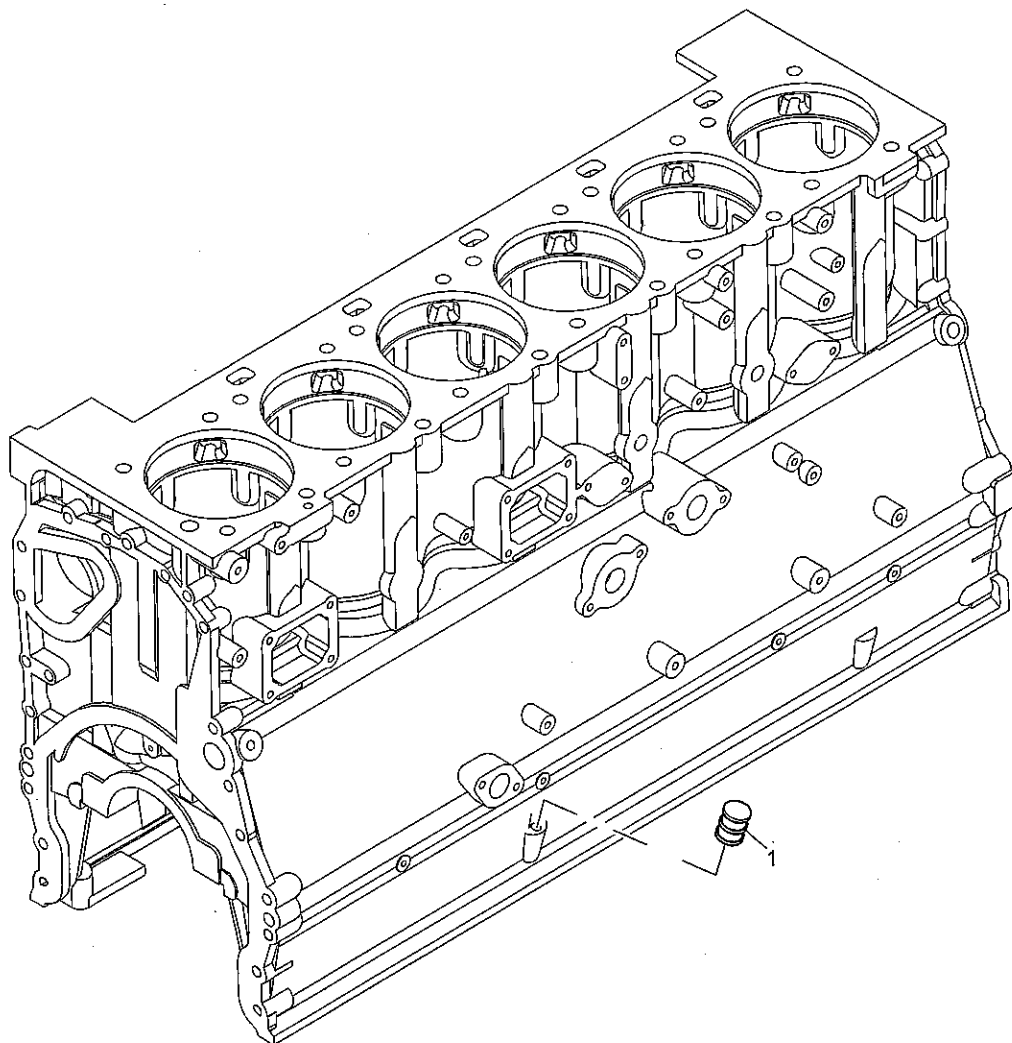
GBHS1092



Dipstick	Plate A
GBHS1092	

Item	Part No.	References	Qty.	Description	Notes
1	CH10980		1	DIPSTICK ASSEMBLY	
2	CH10794		1	BOLT	
3	CH10541		1	WASHER	

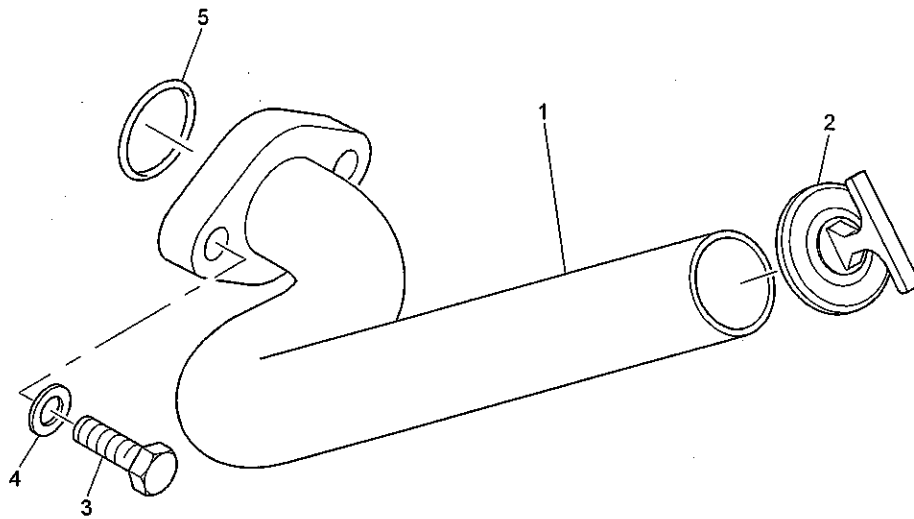
GBHS1092



Blanking Plug	Plate B
	GBHS1092

Item	Part No.	References	Qty.	Description	Notes
1	CH10795		3	PLUG	

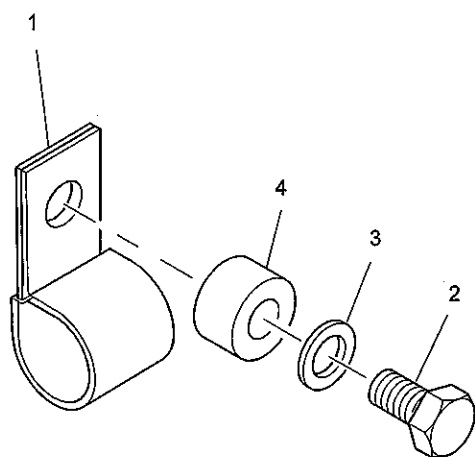
GBHS1093



Filler	Plate A
GBHS1093	

Item	Part No.	References	Qty.	Description	Notes
1	CH11599		1	OIL FILLER TUBE	
2	CH11103		1	OIL FILLER CAP	
3	CH10567		2	BOLT	
4	CH10541		2	WASHER	
5	CH11102		1	SEAL - O RING	

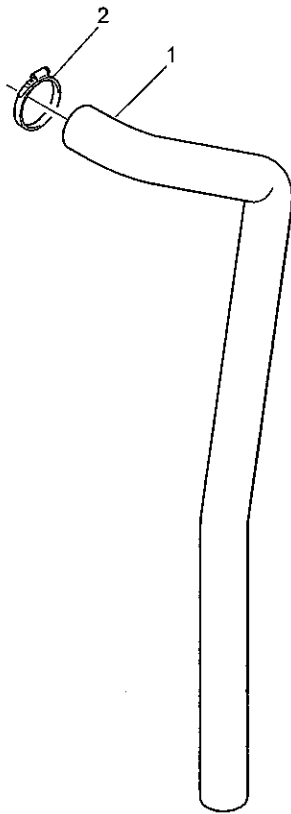
HBHS1032



Breather Clip	Plate A
HBHS1032	

Item	Part No.	References	Qty.	Description	Notes
1	CH10850		2	CLIP	
2	CH11897		1	BOLT	
3	CH10255		1	WASHER	
4	CH11983		1	SPACER	

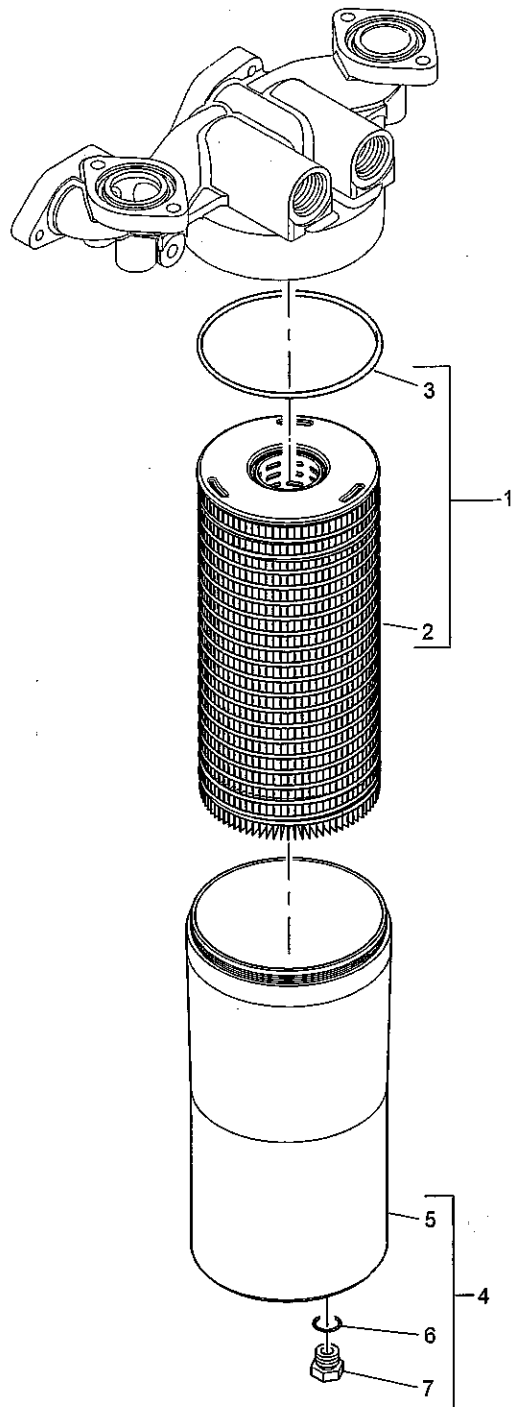
HIAFF



Breather Hose	Plate A
HIAFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH10962		1	PIPE - BREATHER	
2	ST46408		1	CLIP	

JBHD0397

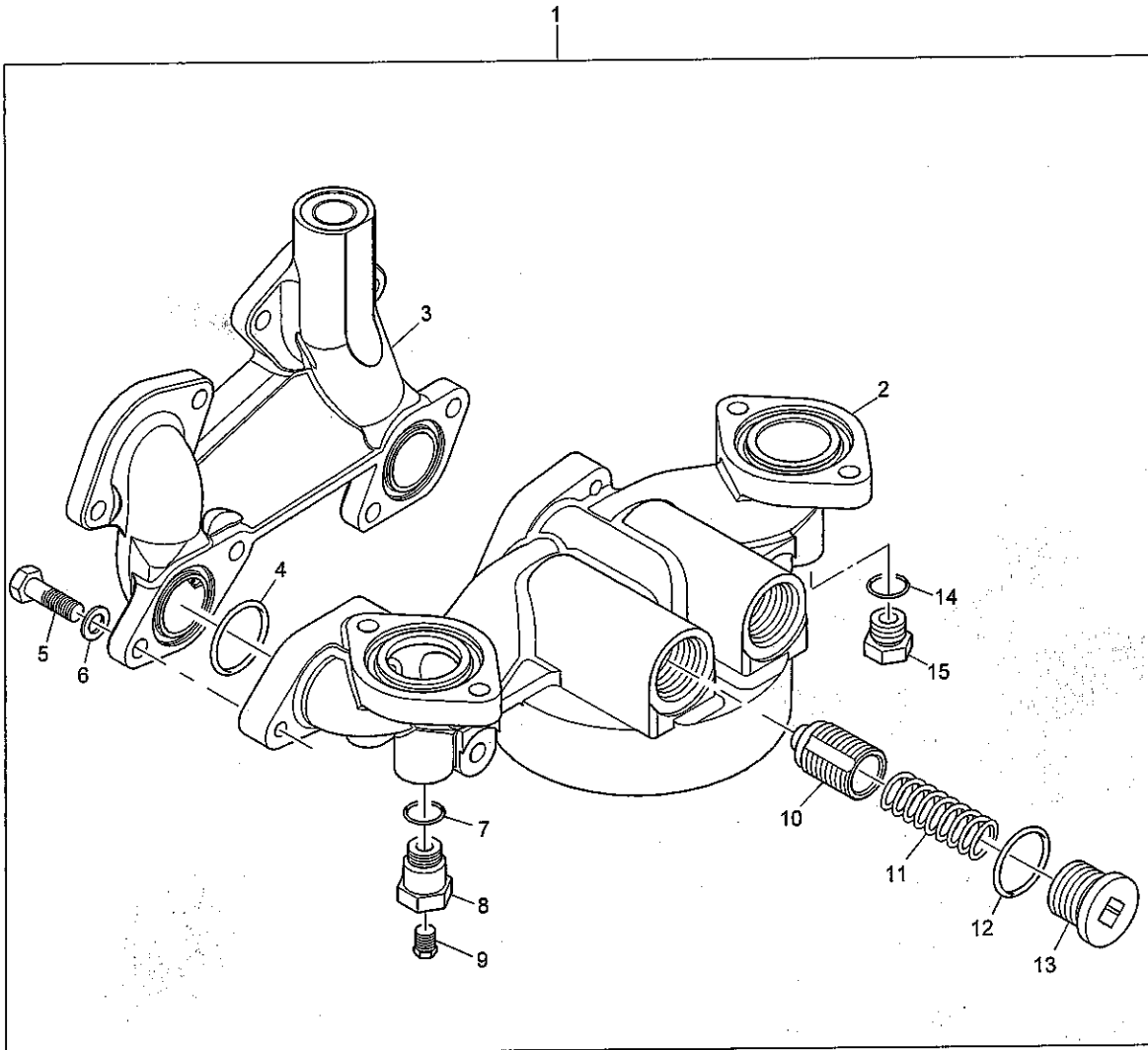


Oil Filter	Plate A
JBHD0397	

Item	Part No.	References	Qty.	Description	Notes
1	CH10929		1	OIL FILTER	
2		⇒ CH10929	1	OIL FILTER	
3	CH12010		1	SEAL	
4	KRP1719	↳ U24142V ⓐ b.	1	OIL FILTER ASSEMBLY	
5			1	FILTER HOUSING	
6	CH10046		1	SEAL - O RING	
7	CH10284		1	PLUG	

History					
a.	CH12010	↳ U24142V	1	SEAL	
b.	↳ U24141V				
4	KRP1570		1	FILTER HOUSING	
	CH11139		1	SEAL - O RING	

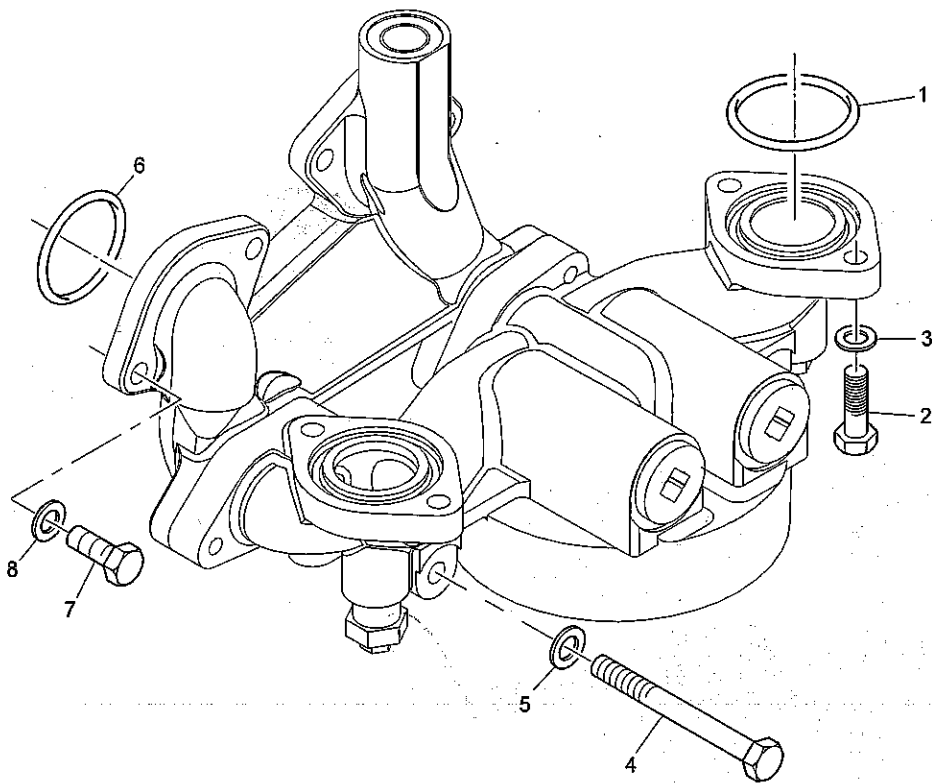
JBHD0397




Oil Filter	Plate A
JBHD0397	

Item	Part No.	References	Qty.	Description	Notes
1	CH11579		1	OIL FILTER HEAD	
2	—	⇒ CH11579	1	OIL FILTER HEAD	
3	—CH10818		1	OIL FILTER HEAD	
4	—CH10316		2	SEAL - O RING	
5	—CH10567		4	BOLT	
6	—CH10541		4	WASHER	
7	CH10133		1	SEAL - O RING	
8	CH10888		1	ADAPTOR	
9	CH10262		1	PLUG	
10	CH10513		2	RELIEF VALVE	
11	CH10819		2	SPRING	
12	CH10091		2	SEAL - O RING	
13	CH10291		2	PLUG	
14	CH10133		1	SEAL - O RING	
15	CH10284		1	PLUG	

JBHD0397

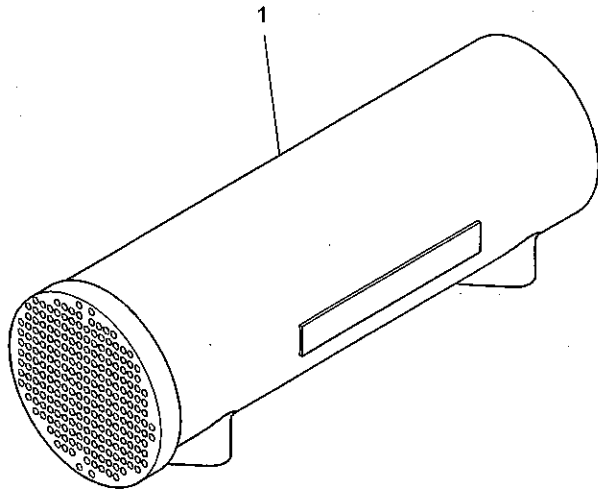


Oil Filter	Plate B
JBHD0397	

Item	Part No.	References	Qty.	Description	Notes
1	T400222	 a.	2	SEAL - O RING	
2	CH10567		2	BOLT	
3	CH10541		2	WASHER	
4	CH10814		2	BOLT	
5	CH10541		2	WASHER	
6	CH10224		2	SEAL - O RING	
7	CH10815		4	BOLT	
8	CH10541		4	WASHER	

History					
a.					
1	CH10816		2	SEAL - O RING	

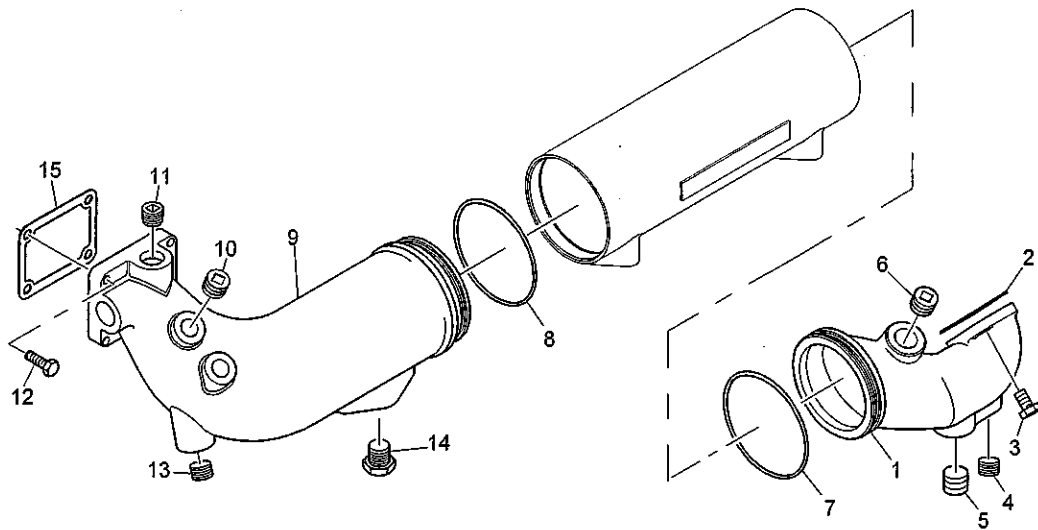
JBHS1153



Oil Cooler	Plate A
	JBHS1153

Item	Part No.	References	Qty.	Description	Notes
1	CH11631		1	OIL COOLER	

JBHS1153



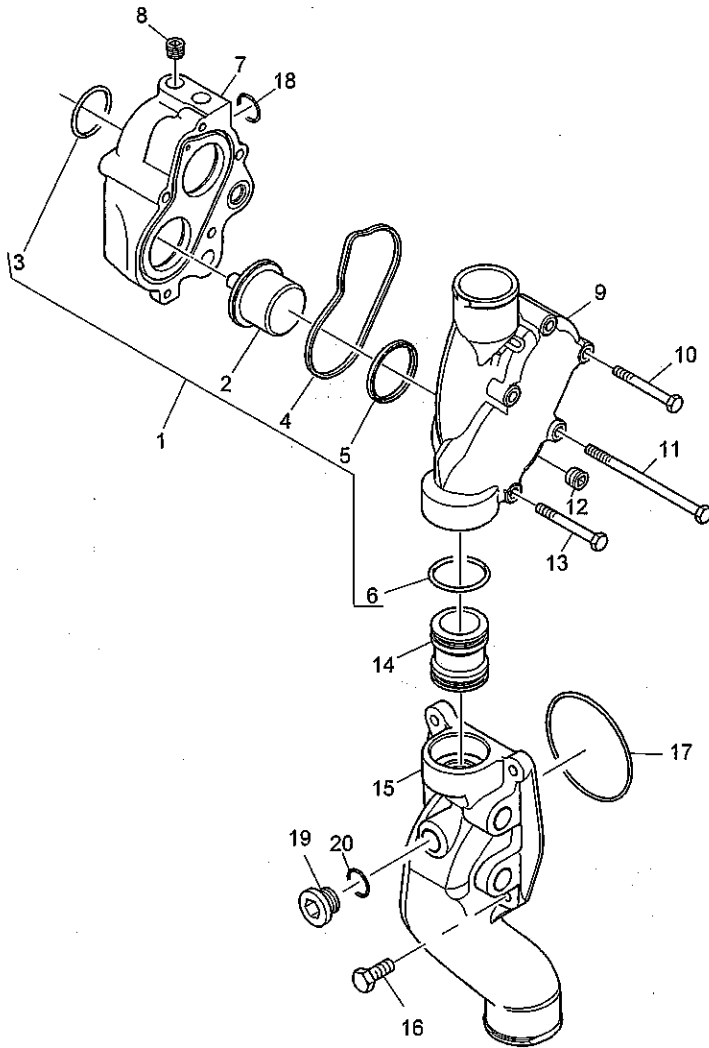
Oil Cooler Pipes

Plate A

JBHS1153

Item	Part No.	References	Qty.	Description	Notes
1	CH10769		1	WATER PIPE	
2	CH10757		1	SEAL	
3	CH10537		2	BOLT	
4	CH10260		1	PLUG	
5	CH10220		1	PLUG	
6	CH10220		1	PLUG	
7	CH10544		1	SEAL - O RING	
8	CH10544		1	SEAL - O RING	
9	CH11617		1	WATER PIPE	
10	CH10220		4	PLUG	
11	CH10260		5	PLUG	
12	CH10567		4	BOLT	
13	CH10259		1	PLUG	
14	CH10263		1	PLUG	
15	CH10579		1	GASKET	

JBHS1153



JBHS1153

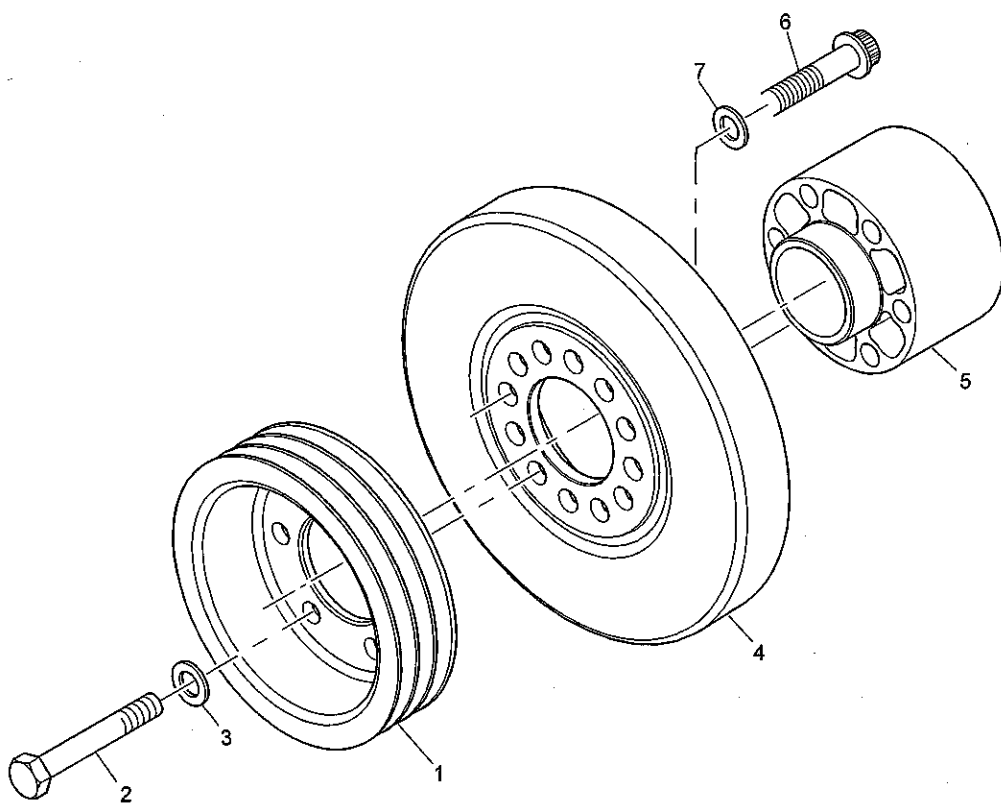
Item	Part No.	References	Qty.	Description	Notes
1	KRP1645		1	THERMOSTAT KIT	
2	—CH11620		2	THERMOSTAT	
3	—CH10766		1	SEAL - O RING	
4	—CH10770		1	SEAL - THERMOSTAT HOUSING	
5	—CH10056		2	SEAL - THERMOSTAT HOUSING	
6	—CH10755		2	SEAL - O RING	
7	CH11224		1	HOUSING	
8	CH10260		2	PLUG	
9	CH10765		1	THERMOSTAT HOUSING	
10	CH10751		1	BOLT	
11	CH10753		1	BOLT	
12	CH10260		1	PLUG	
13	CH10751		1	BOLT	
14	CH10752		1	PIPE	
15	CH11618		1	COVER	
16	CH11895		5	BOLT	
17	CH11619		1	SEAL - O RING	
18	CH11621		3	SEAL - O RING	
19	CH12474	ⓐ a.	3	PLUG	
20	CH11621		1	SEAL - O RING	

History

a.

19	CH11622		3	PLUG	
----	---------	--	---	------	--

KBHS1053

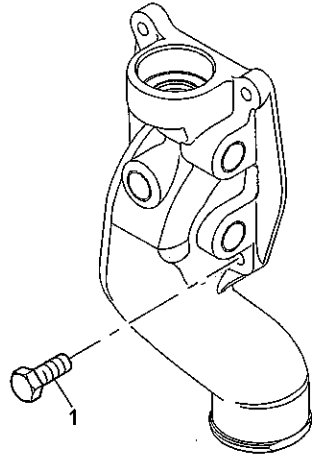


Front End Drive Input	Plate A
KBHS1053	

Item	Part No.	References	Qty.	Description	Notes
1	CH11648		1	CRANKSHAFT PULLEY	
2	CH10809	ⓐ b.	6	BOLT	
3	CH11651		6	WASHER	
4	CH11745	ⓐ a.	1	DAMPER	
5	CH11647		1	ADAPTOR	
6	CH11652		12	BOLT	
7	CH11650		12	WASHER	

History					
a.					
4	CH11646		1	DAMPER	
b.					
2	CH11649		6	BOLT	

LBHD0089

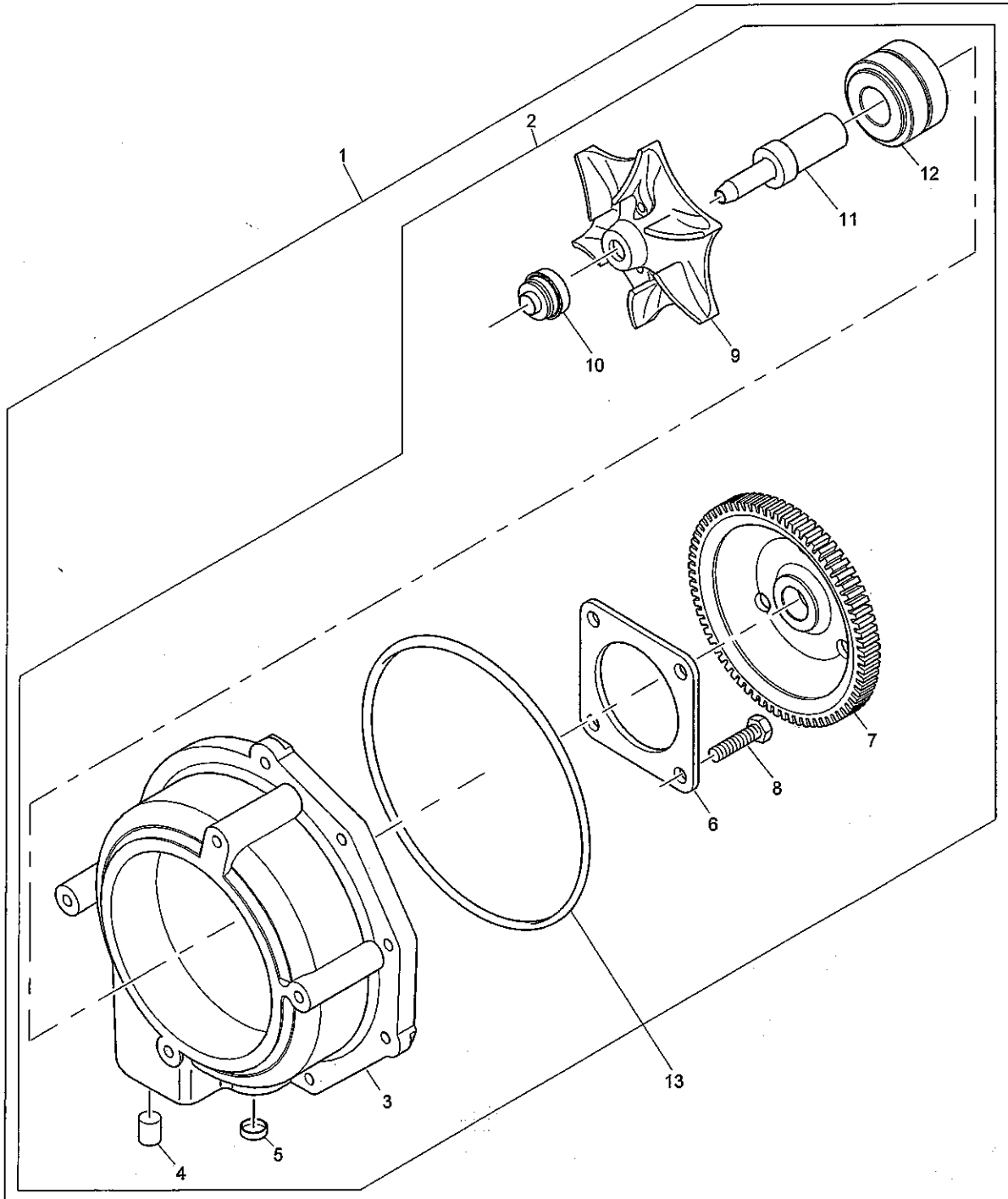


Water Pump	Plate A
	LBHD0089

Item	Part No.	References	Qty.	Description	Notes
1	CH11895		1	BOLT	

→ U18531S

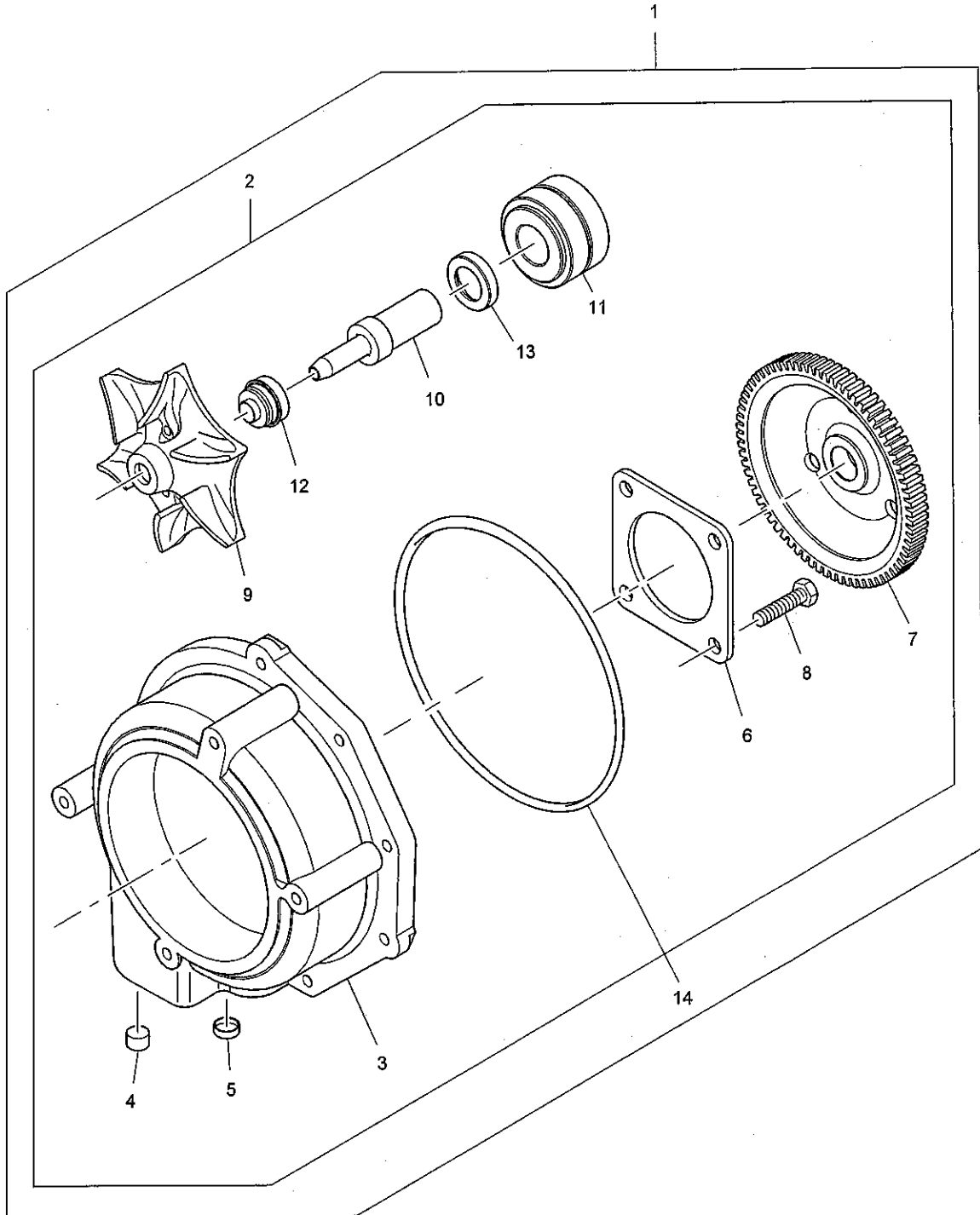
LBHD0090



Water Pump	Plate A
→ U18531S	LBHD0090

Item	Part No.	References	Qty.	Description	Notes
1	KRP1678		1	WATER PUMP KIT	
2	├──	⇒ KRP1678	1	WATER PUMP	
3	├──	⇒ KRP1678	1	WATER PUMP HOUSING	
4	├── CH11634		1	STRAINER	
5	├── CH11545		1	PLUG	
6	├── CH10559		1	RETAINING PLATE	
7	├── CH11544		1	WATER PUMP GEAR	
8	├── CH10557		1	BOLT	
9	├── CH11943		1	IMPELLER	
10	├── CH11941		1	SEAL - WATER PUMP	
11	├── CH11942		1	SHAFT	
12	├── CH10558		1	ROLLER BEARING	
13	└── CH11568		1	SEAL - O RING	

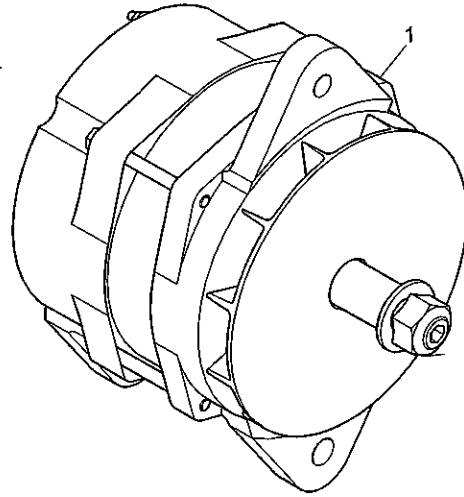
LBHD0090



Water Pump	Plate A
LBHD0090	

Item	Part No.	References	Qty.	Description	Notes
1	KRP1715		1	WATER PUMP KIT	
2	├──	⇒ KRP1715	1	WATER PUMP	
3	├──	⇒ KRP1715	1	WATER PUMP HOUSING	
4	├── CH12680		1	STRAINER	
5	├── CH11545		1	PLUG	
6	├── CH10559		1	RETAINING PLATE	
7	├── CH11544		1	WATER PUMP GEAR	
8	├── CH10557		4	BOLT	
9	├── CH11943		1	IMPELLER	
10	├── CH11942		1	SHAFT	
11	├── CH10558		1	ROLLER BEARING	
12	├── CH12791		1	SEAL	
13	├── CH10554		1	SEAL - WATER PUMP	
14	└── CH10545		1	SEAL - O RING	

N1BFF

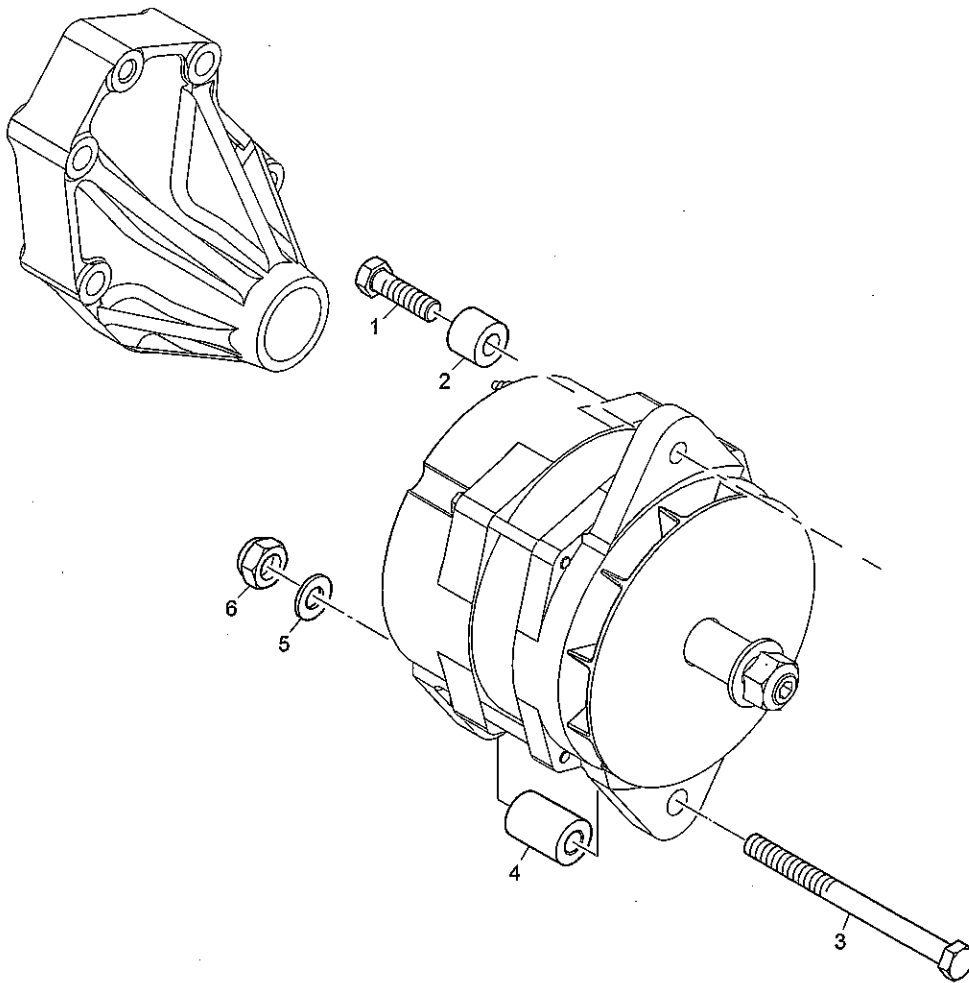


Alternator	Plate A
-------------------	----------------

	NIBFF
--	--------------

Item	Part No.	References	Qty.	Description	Notes
1	CH11087	0	1	ALTERNATOR	
	Service Options				
1	R/CH11087		1	EXCHANGE ALTERNATOR	

NIBFF



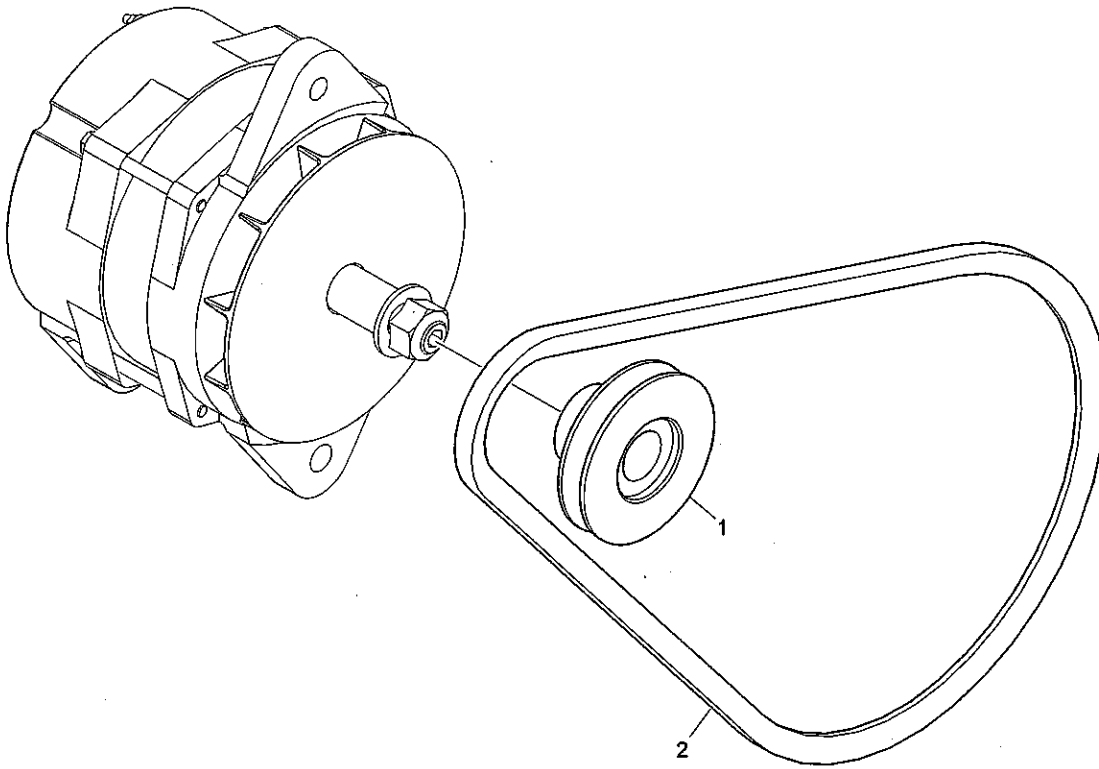
Alternator Bracket & Fixings

Plate A

NIBFF

Item	Part No.	References	Qty.	Description	Notes
1	ST29802		1	SETSCREW	
2	OE49437		1	SPACER	
3	UF1676		1	BOLT	
4	CH11035		1	SPACER	
5	ST15905		2	WASHER	
6	UF4357		1	NUT	

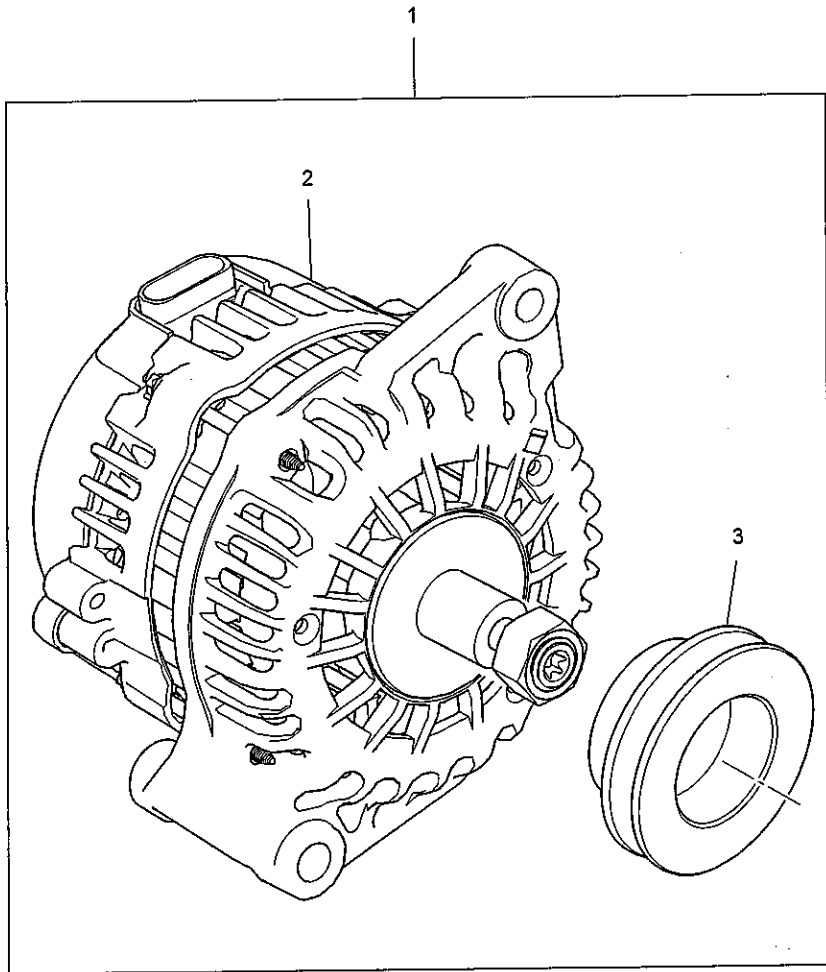
N1BFF



Alternator Pulley and Belt		Plate A
		N1BFF

Item	Part No.	References	Qty.	Description	Notes
1	CH11036		1	ALTERNATOR PULLEY	
2	CH11037		1	BELT	

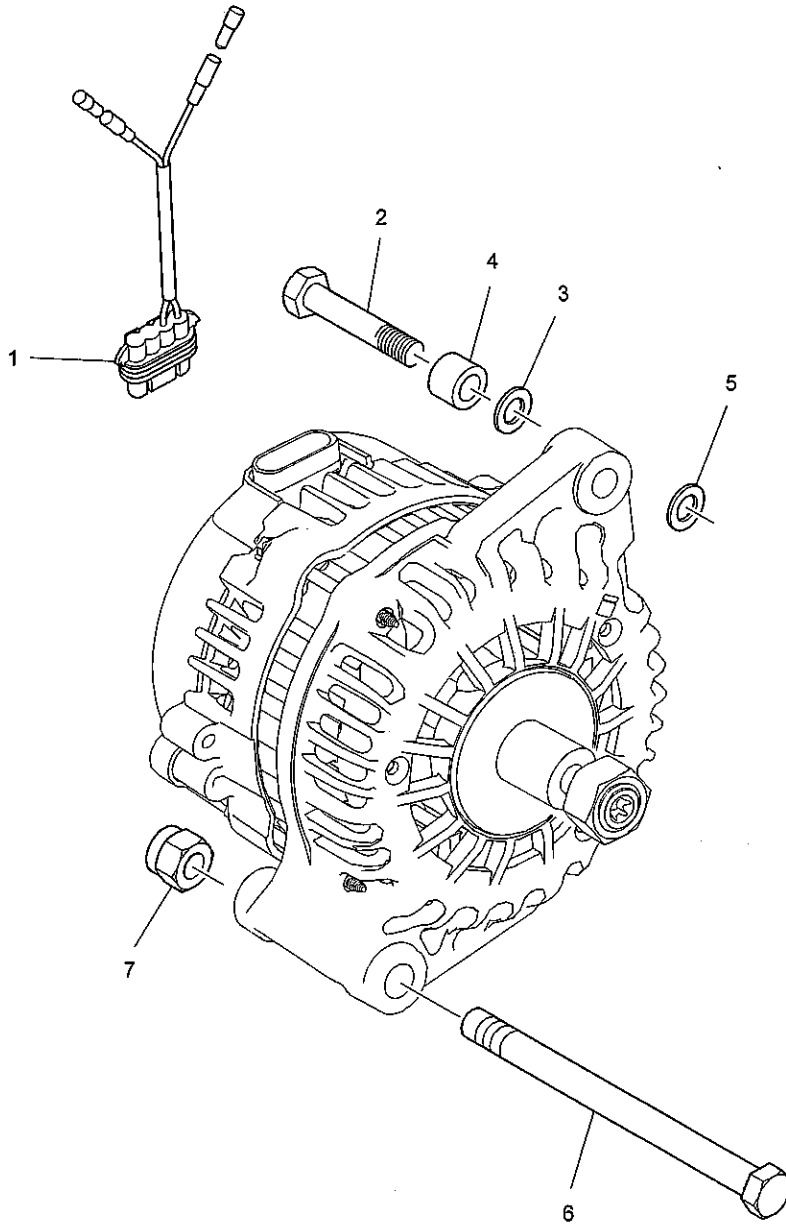
N1BFF



Alternator	Plate A
N1BFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH12876		1	ALTERNATOR	
2		⇒ CH12876	1	ALTERNATOR	
3	CH12877		1	ALTERNATOR PULLEY	

N1BFF

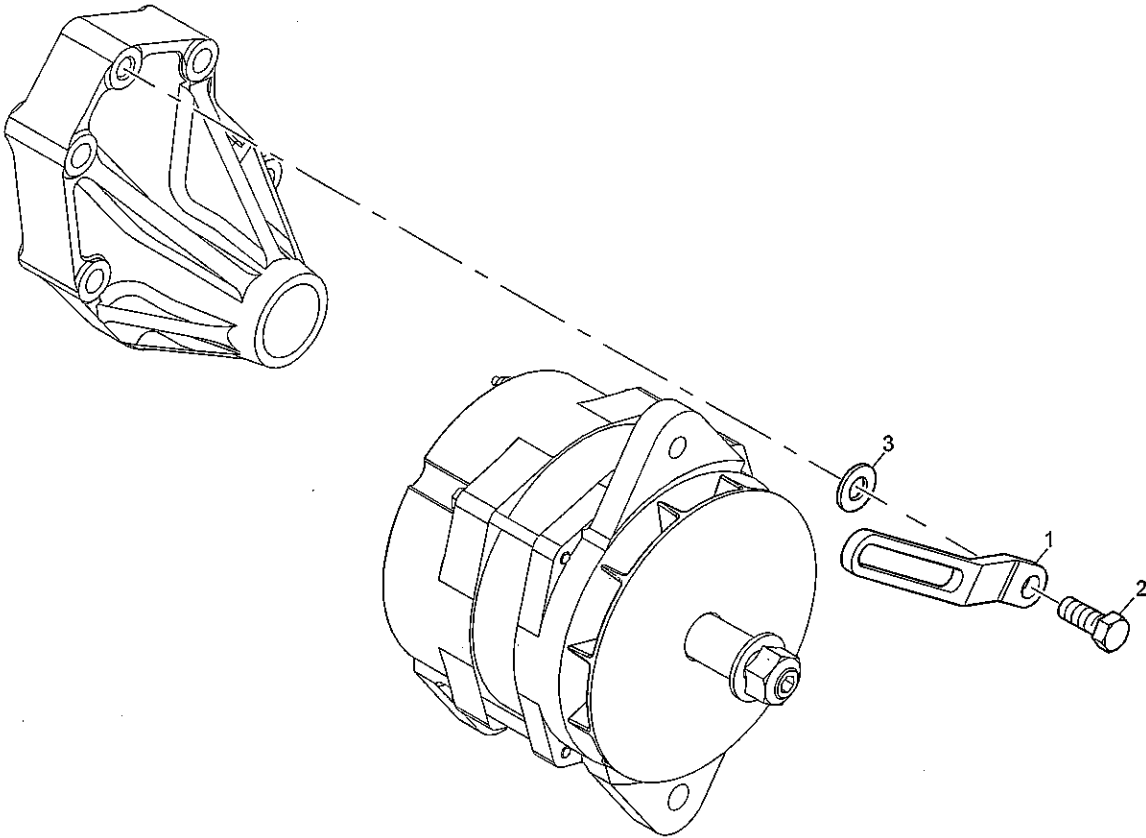


Alternator Bracket & Fixings	Plate A
---	----------------

	NIBFF
--	--------------

Item	Part No.	References	Qty.	Description	Notes
1	3161C093		1	WIRING HARNESS	
2	0096439		1	BOLT	
3	0920004		1	WASHER	
4	CH12891		1	SPACER	
5	0920004		1	WASHER	
6	2186431		1	SCREW	
7	0576304		1	NUT	

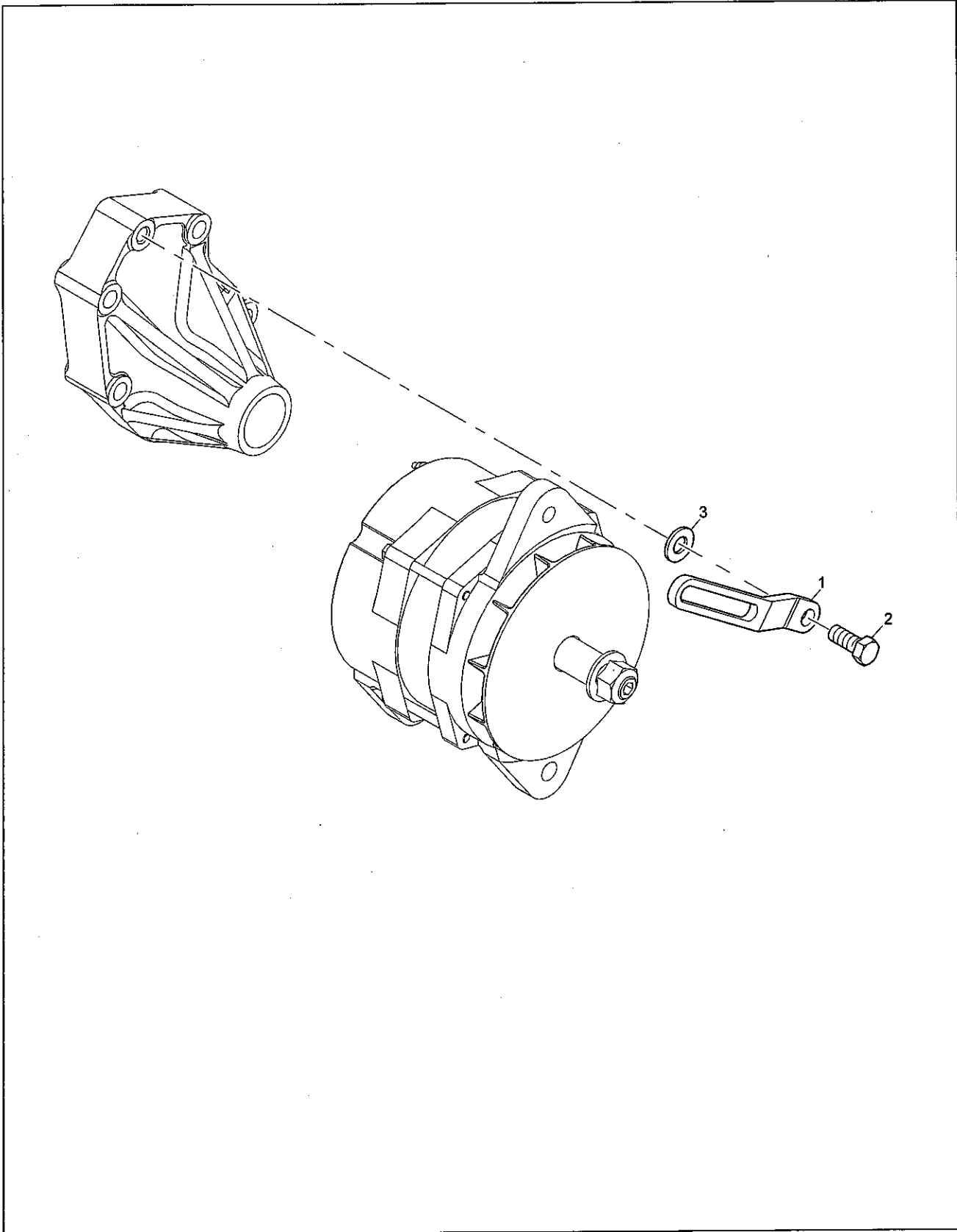
NIAFF



Alternator Mounting	Plate A
NIAFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11034		1	ALTERNATOR BRACKET	
2	ST29054		1	CAPSCREW	
3	ST15905		1	WASHER	

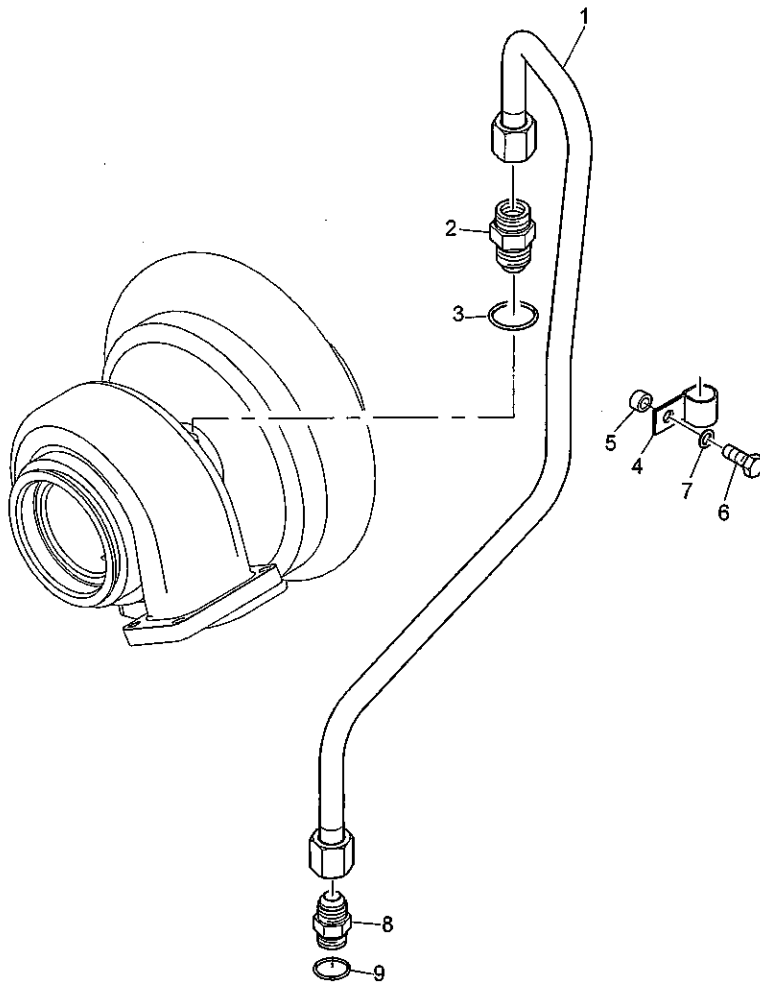
NIAFF



Alternator Mounting	Plate A
NIAFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH12835		1	ALTERNATOR BRACKET	
2	ST29054		1	CAPSCREW	
3	ST15905		1	WASHER	

SBHD0158

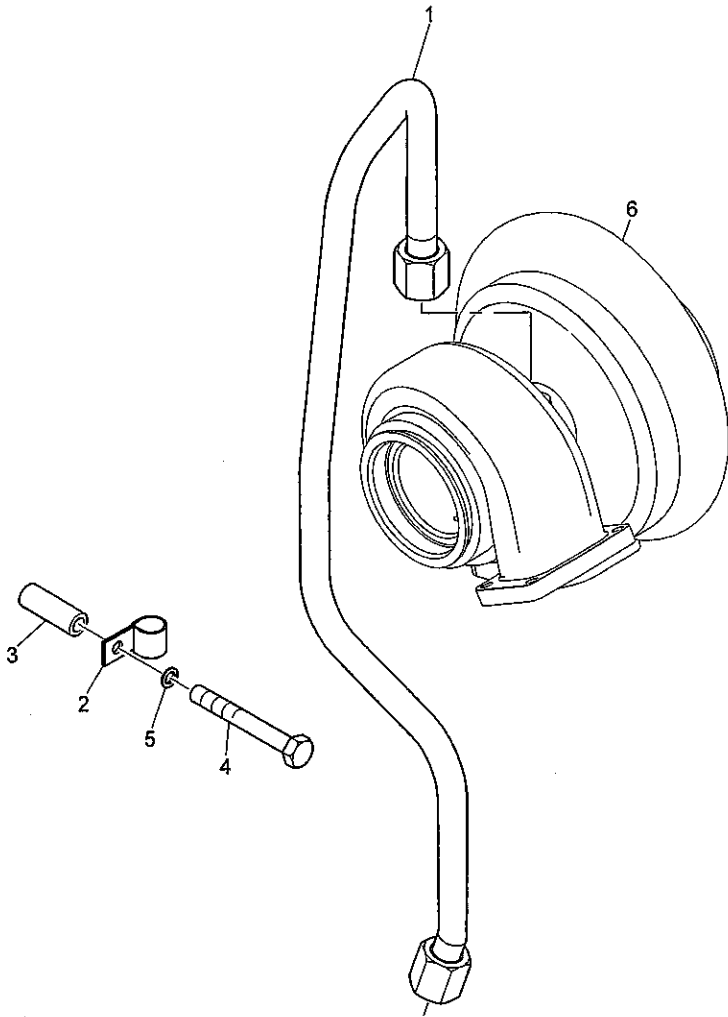


Feed Pipes	Plate A
SBHD0158	

Item	Part No.	References	Qty.	Description	Notes
1	CH11628		1	PIPE - TURBO OIL FEED	
2	CH11564		1	ADAPTOR	
3	CH11880		1	SEAL - O RING	
4	T400203	ⓐ a.	1	PIPE CLIP	
5	CH11896		1	SPACER	
6	CH10815		1	BOLT	
7	CH10255		1	WASHER	
8	CH10806		1	CONNECTOR	
9	T400188	ⓐ a.	1	SEAL - O RING	

History					
a.					
4	CH11566		1	PIPE CLIP	
9	CH11479		1	SEAL - O RING	
	CH11564		1	ADAPTOR	

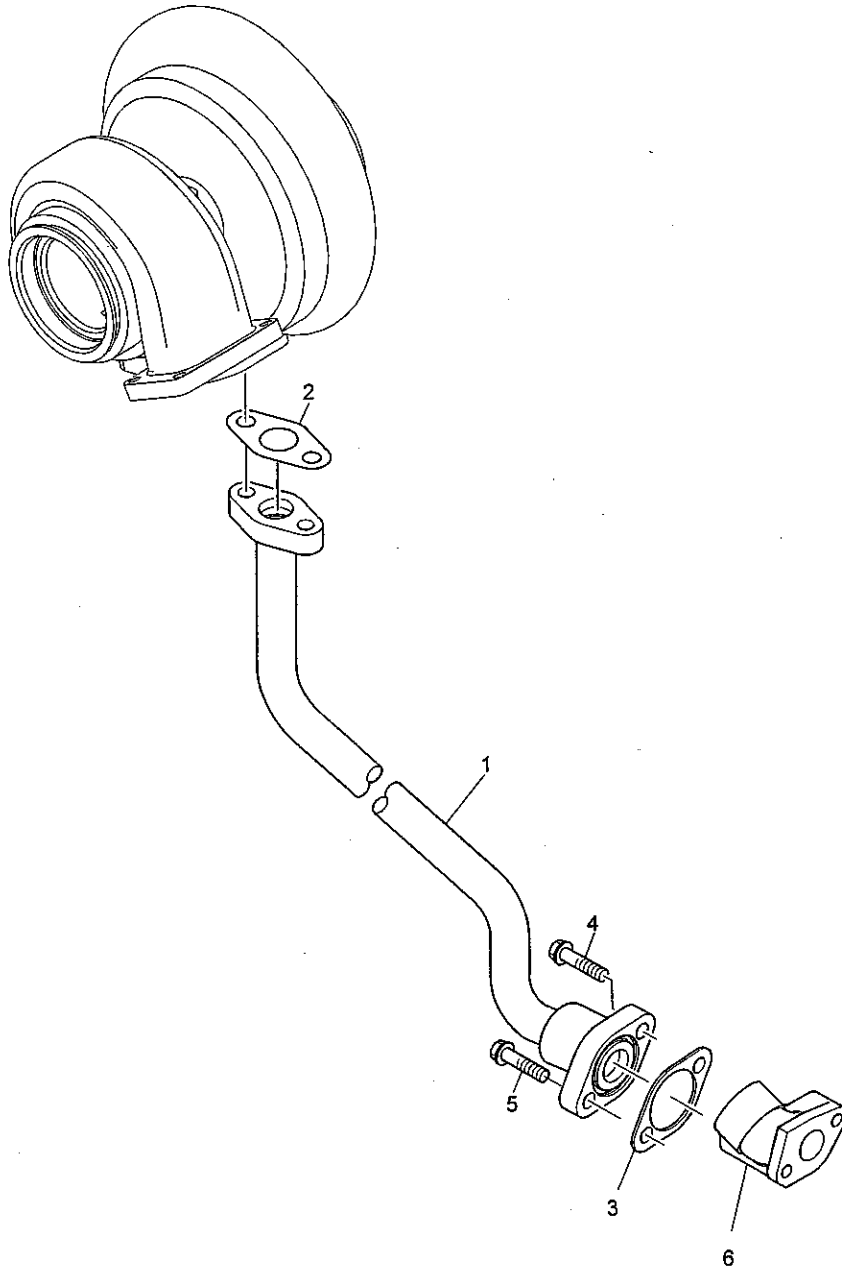
SBHD0158



Feed Pipes	Plate B
SBHD0158	

Item	Part No.	References	Qty.	Description	Notes
1	CH11625		1	PIPE - TURBO OIL FEED	
2	CH11563		1	PIPE CLIP	
3	CH10776		1	SPACER	
4	CH10538		1	BOLT	
5	CH10255		1	WASHER	

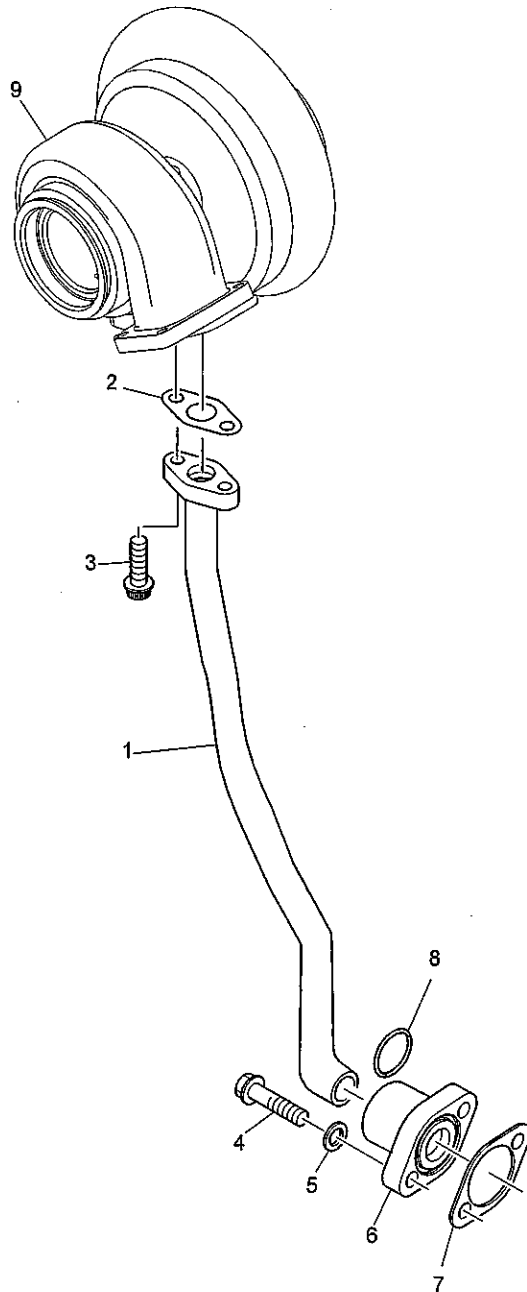
SBHD0158



Leak-Off Pipes	Plate B
SBHD0158	

Item	Part No.	References	Qty.	Description	Notes
1	CH11626		1	PIPE - TURBO OIL DRAIN	
2	CH11561		1	GASKET	
3	CH11560		1	SEAL	
4	CH10609		1	BOLT	
5	CH10538		1	BOLT	
6	CH11558		1	ELBOW	

SBHD0158

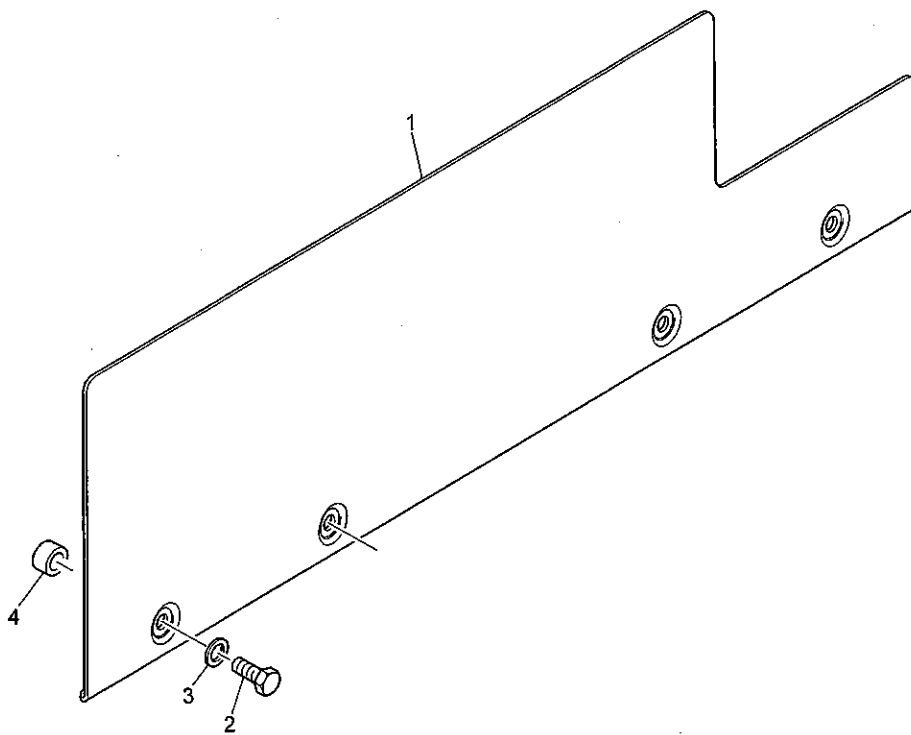


Leak-Off Pipes	Plate B
SBHD0158	

Item	Part No.	References	Qty.	Description	Notes
1	CH11627		1	PIPE - TURBO OIL DRAIN	
2	CH11561		1	GASKET	
3	CH11565		2	BOLT	
4	CH10585		2	BOLT	
5	CH10277		2	WASHER	
6	CH11624		1	ELBOW	
7	CH11560		1	SEAL	(A)
8	CH11562		1	SEAL - O RING	
9			1	TURBOCHARGER	

Footnotes	
(A)	NOT ILLUSTRATED

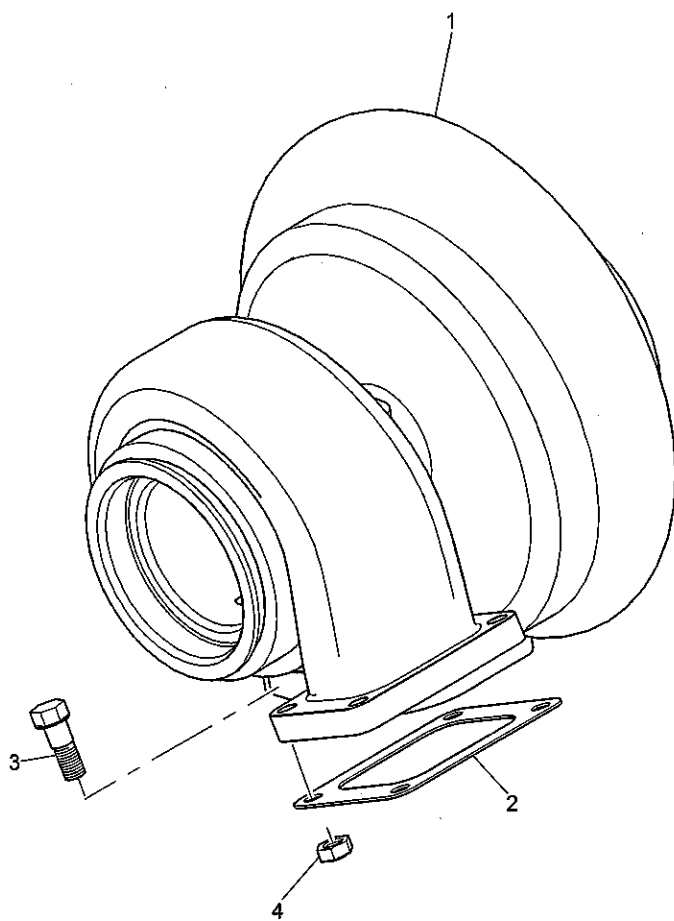
SBHD0159



Heatshield	Plate A
SBHD0159	

Item	Part No.	References	Qty.	Description	Notes
1	CH11593		1	HEATSHIELD	
2	CH11895		3	BOLT	
3	CH10255		3	WASHER	
4	CH11896		3	SPACER	

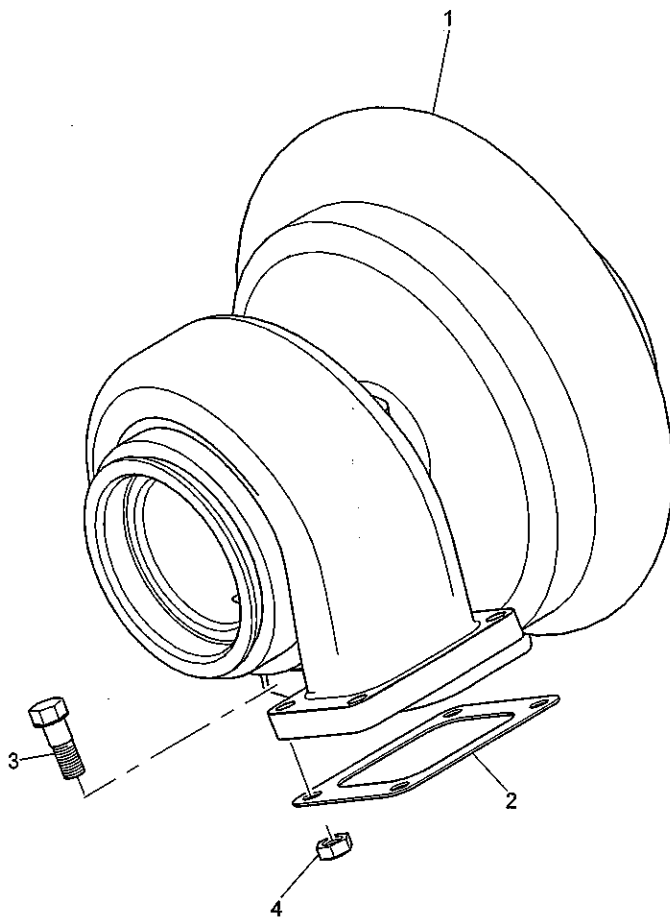
SBHD0163



Turbocharger	Plate A
	SBHD0163

Item	Part No.	References	Qty.	Description	Notes
1	CH11607		1	TURBOCHARGER	
2	CH11761		1	GASKET - TURBOCHARGER	
3	CH10733		4	BOLT	
4	CH10734		4	LOCKNUT	
Service Options					
1	R/CH11607		1	TURBOCHARGER - EXCHANGE	

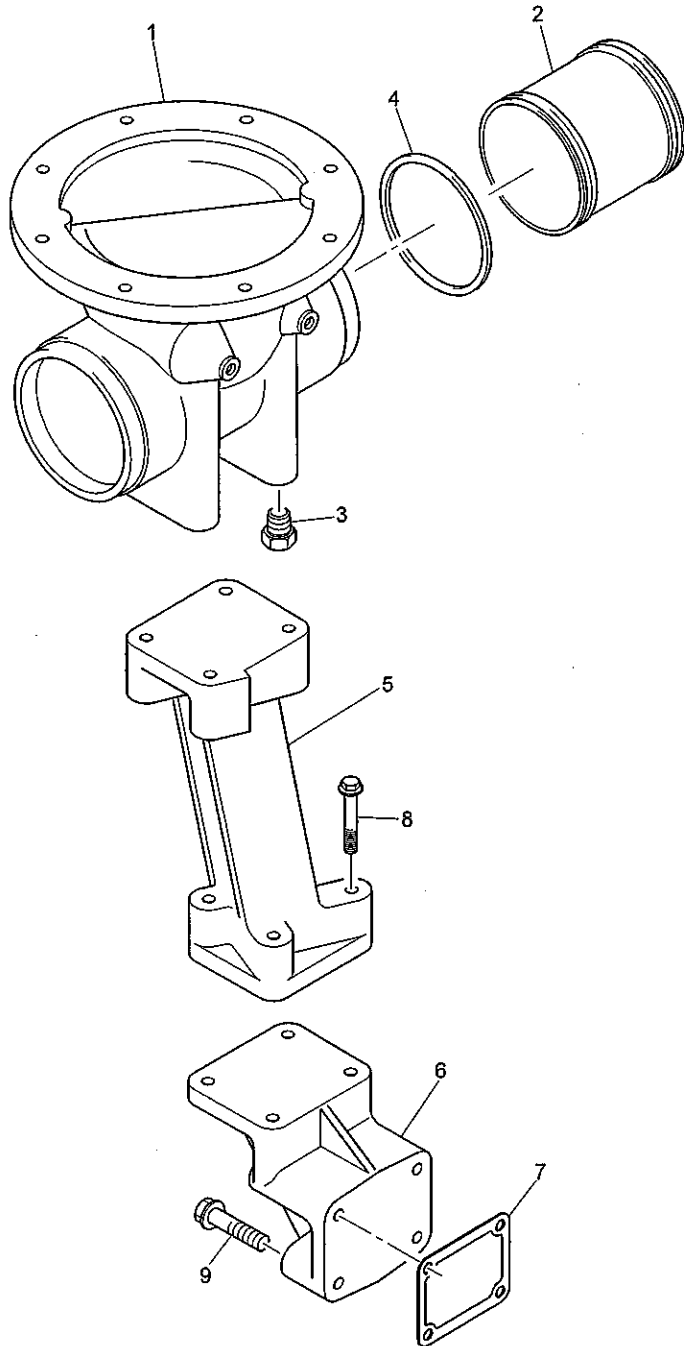
SBHD0163



Turbocharger	Plate B
SBHD0163	

Item	Part No.	References	Qty.	Description	Notes
1	CH11608		1	TURBOCHARGER	
2	CH11761		1	GASKET - TURBOCHARGER	
3	CH10733		4	BOLT	
4	CH10734		4	LOCKNUT	
Service Options					
1	R/CH11608		1	TURBOCHARGER - EXCHANGE	

SBHD0162

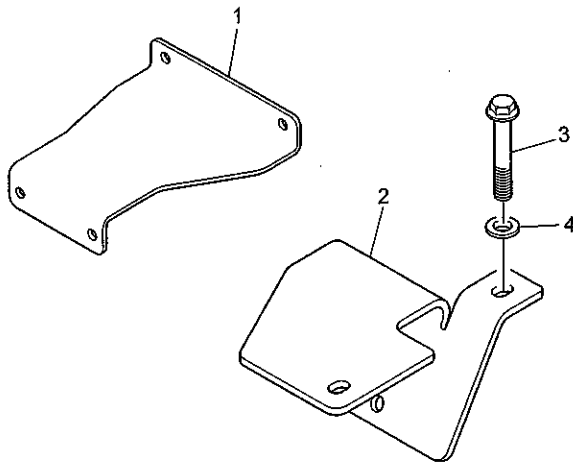


Air Duct	Plate A
SBHD0162	

Item	Part No.	References	Qty.	Description	Notes
1	CH11636		1	EXHAUST ELBOW	
2	CH11635		2	COUPLING	
3		ⓐ a.	2	PLUG	
4	CH11679		4	SEAL - O RING	
5	CH11577		1	SUPPORT	
6	CH11576		1	COVER	
7	CH10579		1	GASKET	
8	CH10585		10	BOLT	
9	CH10791	ⓑ b.	2	BOLT	

History					
a.					
3	CH10568		2	PLUG	
b.					
9	CH11476		2	BOLT	

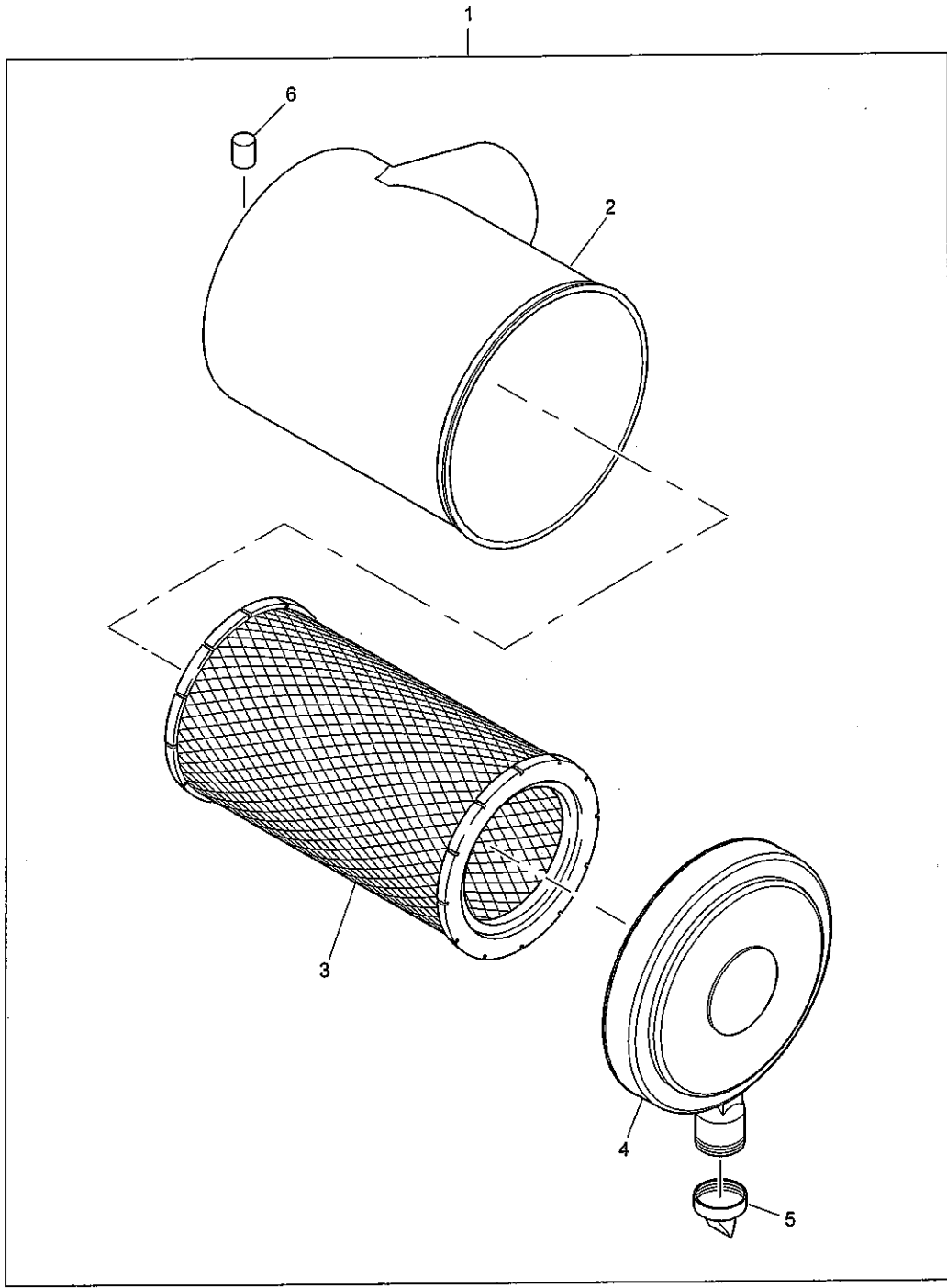
TIFF



Air Filter Mounting	Plate A
T1FFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11363		1	BRACKET	
2	CH11364		1	BRACKET	
3	ST29003		4	BOLT	
4	ST15903		4	WASHER	

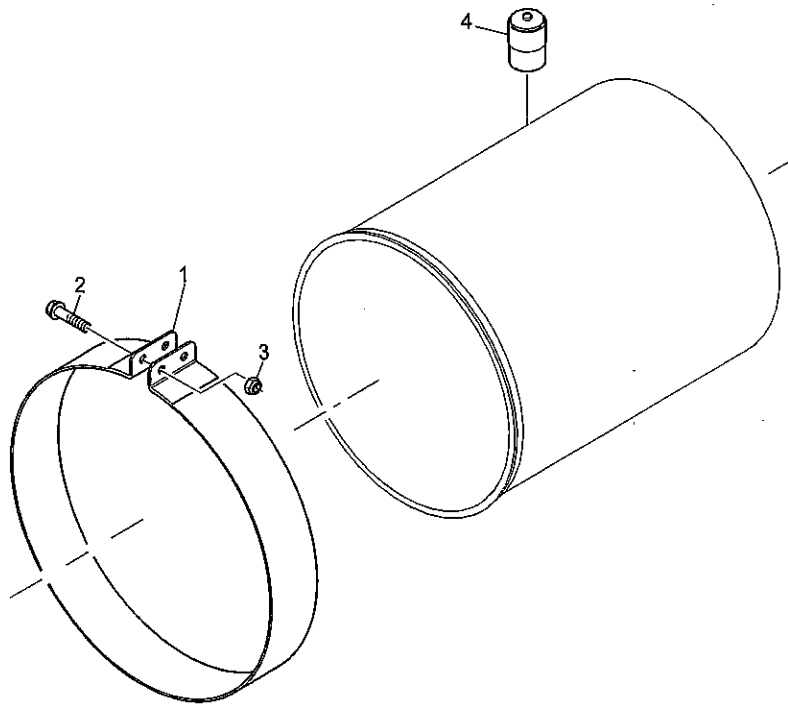
TICFF



Air Filter Assembly	Plate A
T1CFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11038		1	AIR FILTER ASSEMBLY	
2	-	⇒ CH11038	1	AIR FILTER BODY	
3	-SEV551F/4		1	MAIN AIR FILTER	
4	-CH11287		1	COVER	
5	-CV4178		1	VALVE	
6	-CV10891		1	CAP	

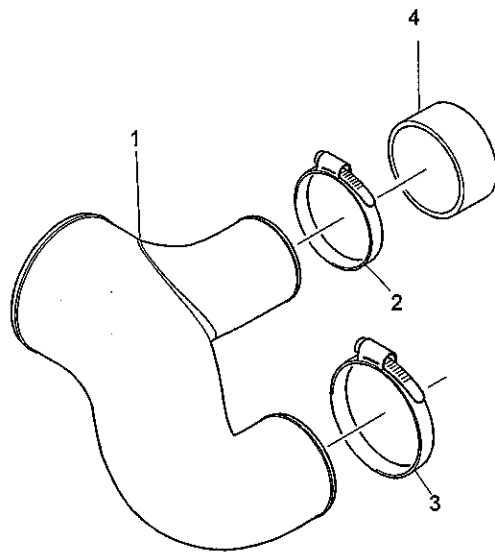
TICFF



Air Filter Mounting	Plate B
T1CFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11221		1	BAND	
2	2315A381		2	METRIC BOLT	
3	2318D010		2	METRIC NUT	
4	CV5479		1	INDICATOR	

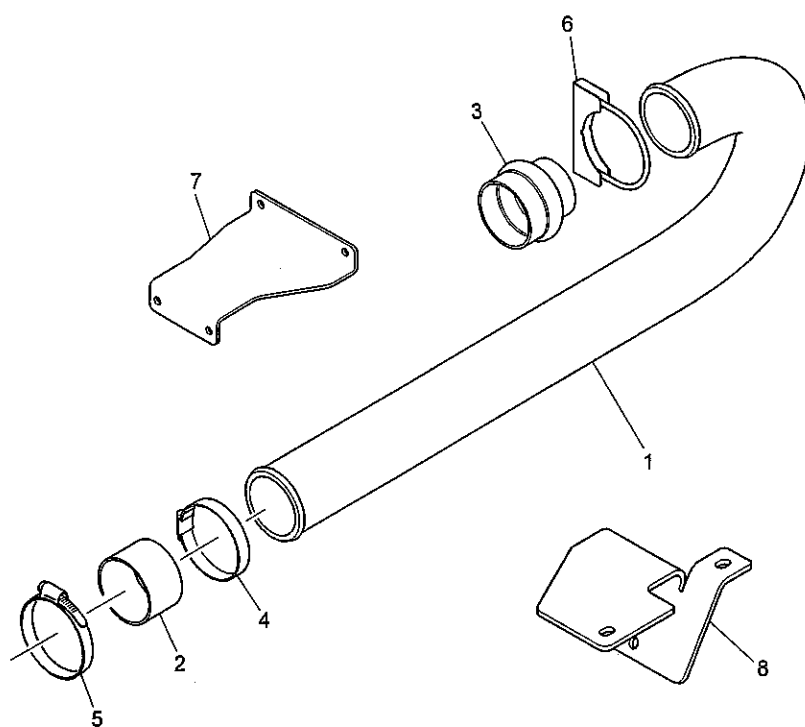
TICFF



Air Duct	Plate A
T1CFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11362		1	PIPE - AIR	
2	525/34M		2	HOSE CLIP	
3	525/62		2	HOSE CLIP	
4	CH11382		1	HOSE	

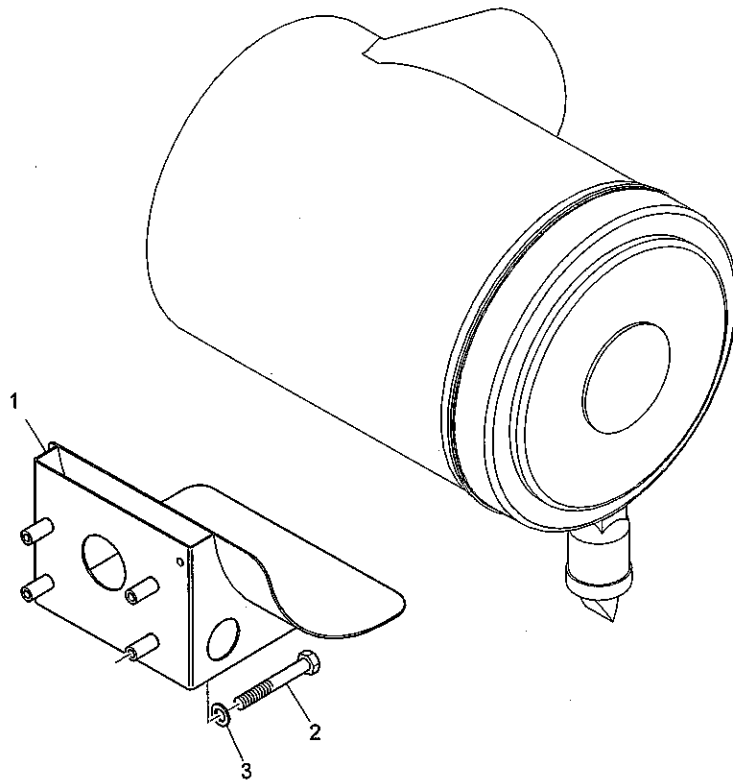
TIDFF



Air Duct	Plate A
T1DFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11365		1	INTAKE MANIFOLD DUCT	
2	CH11383		1	HOSE	
3	CH11386		1	HOSE	
4	525/37		1	HOSE CLIP	
5	525/34M		1	HOSE CLIP	
6	819/489		1	CLAMP	
7	CH11363		1	BRACKET	
8	CH11364		1	BRACKET	

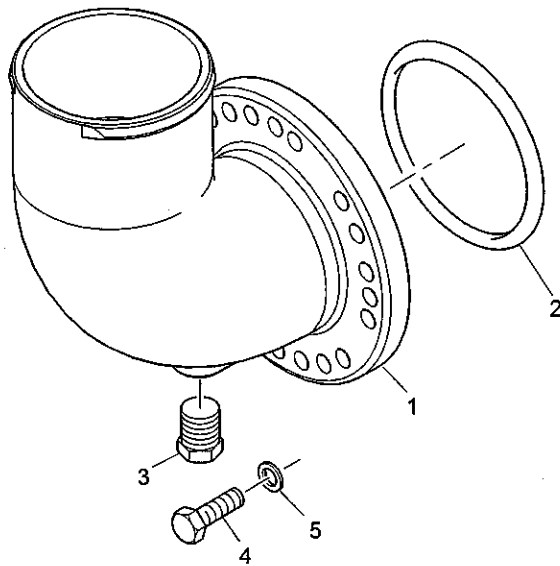
TIAFF



Air Filter Mounting	Plate A
T1AFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11105		1	MOUNTING BRACKET	
2	2234215		4	UNC BOLT	
3	0920004		4	WASHER	

TBHS1049

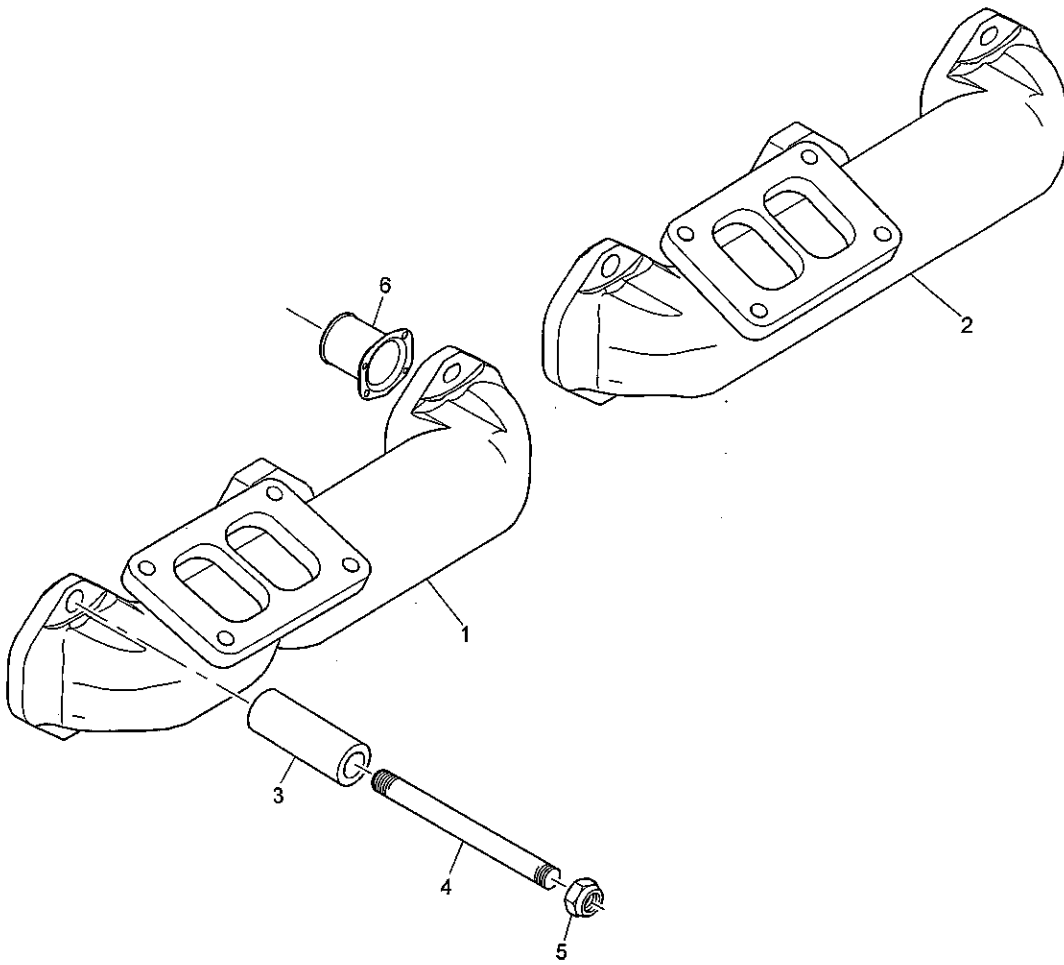


Air Inlet	Plate A
TBHS1049	

Item	Part No.	References	Qty.	Description	Notes
1	CH11613	ⓐ a.	1	INLET ELBOW	
2	CH11614		1	SEAL - O RING	
3	CH10262		1	PLUG	
4	CH10567		4	BOLT	
5	CH10255	ⓐ a.	4	WASHER	

History					
a.					
1	CH10343		1	INLET ELBOW	
5	CH10541		4	WASHER	

UBHS1036

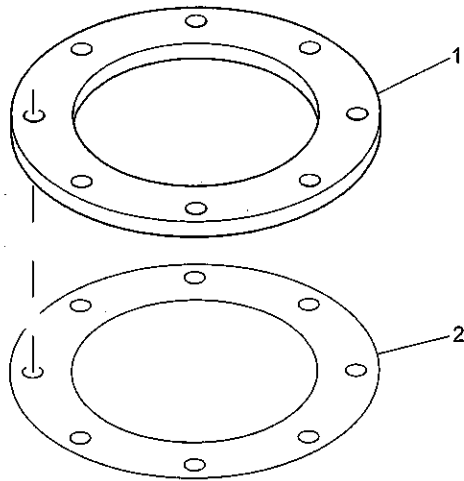


Exhaust Manifold	Plate A
UBHS1036	

Item	Part No.	References	Qty.	Description	Notes
1	CH11556		1	EXHAUST MANIFOLD	
2	CH11557		1	EXHAUST MANIFOLD	
3	CH11555		12	SPACER	
4	CH10775		12	STUD	
5	CH10734		12	LOCKNUT	
6	CH12340	ⓐ a.	6	SLEEVE	

History					
a.					
6	CH11882		6	GASKET - EXHAUST MANIFOLD	

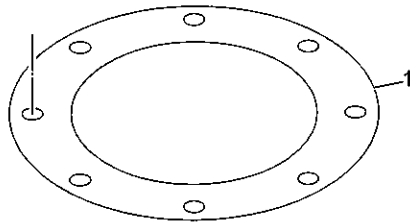
UIAFF



Exhaust Outlet Flange	Plate A
U1AFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11442		1	EXHAUST FLANGE	
2	CH11917		1	GASKET - EXHAUST OUTLET	

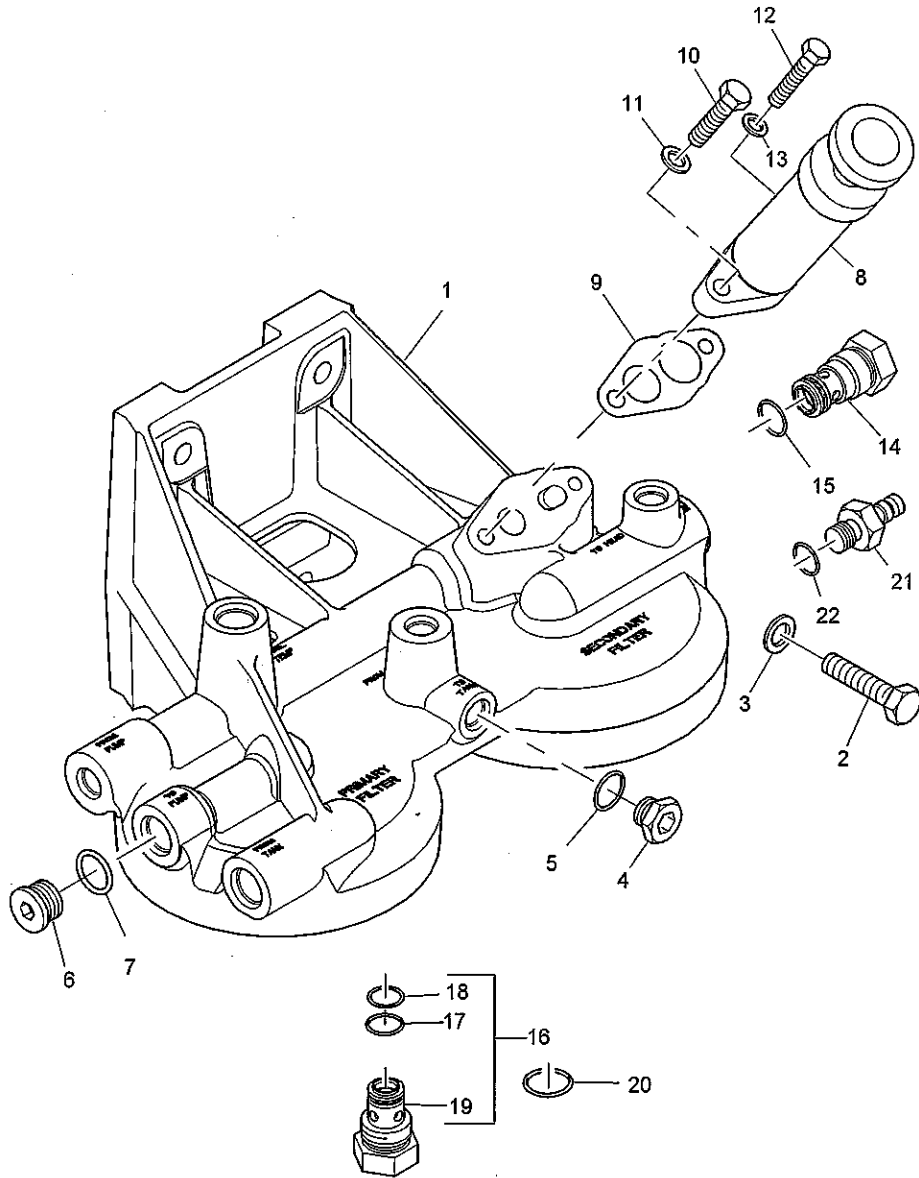
U1BFF







Exhaust Outlet Gasket	Plate A
	U1BFF

Item	Part No.	References	Qty.	Description	Notes
1	CH11917		1	GASKET - EXHAUST OUTLET	

VBHS1096



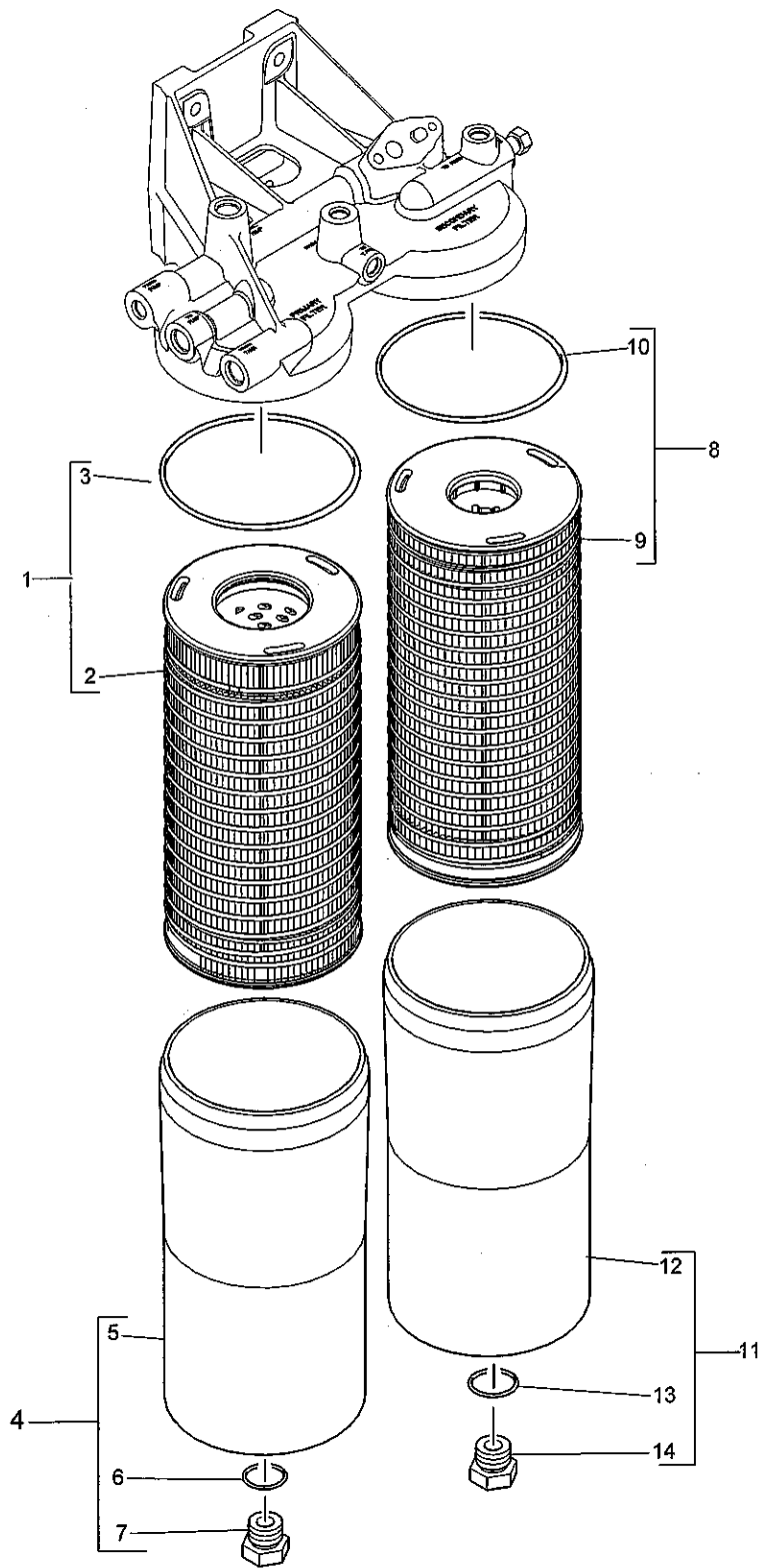
Filter Head Assembly	Plate A
VBHS1096	

Item	Part No.	References	Qty.	Description	Notes
1	CH12434	 c.	1	FUEL FILTER HEAD	
2	CH10609		1	BOLT	
3	CH10255		1	WASHER	
4	CH10286		1	PLUG	
5	CH11880	 a.	1	SEAL - O RING	
6	CH10287		1	PLUG	
7	T406205	 a.	1	SEAL - O RING	
8	CH10439		1	PRIMING PUMP	
9	CH10008		1	GASKET	
10	CH10557		1	BOLT	
11	CH10277		1	WASHER	
12	CH10848		1	BOLT	
13	CH10086		1	WASHER	
14	CH10836		1	VALVE	
15	T400188		1	SEAL - O RING	
16	CH12017	 b.	1	NON RETURN VALVE	
17	└─CH10839		1	SEAL - O RING	
18	└─CH10838		1	SEALING RING	
19	└─	⇒ CH12017	1	VALVE	
20	CH10131		1	SEAL - O RING	
21	CH11410		1	PLUG	
22	CH11880		1	SEAL - O RING	
23	CH11411		1	DUST SHIELD	(A)

History					
a.					
5	CH10046		1	SEAL - O RING	
7	CH10048		1	SEAL - O RING	
b.					
16	CH12017		1	NON RETURN VALVE	
	└─CH10131		1	SEAL - O RING	
c.					
1	CH11075		1	FUEL FILTER HEAD	

Footnotes	
(A)	NOT ILLUSTRATED

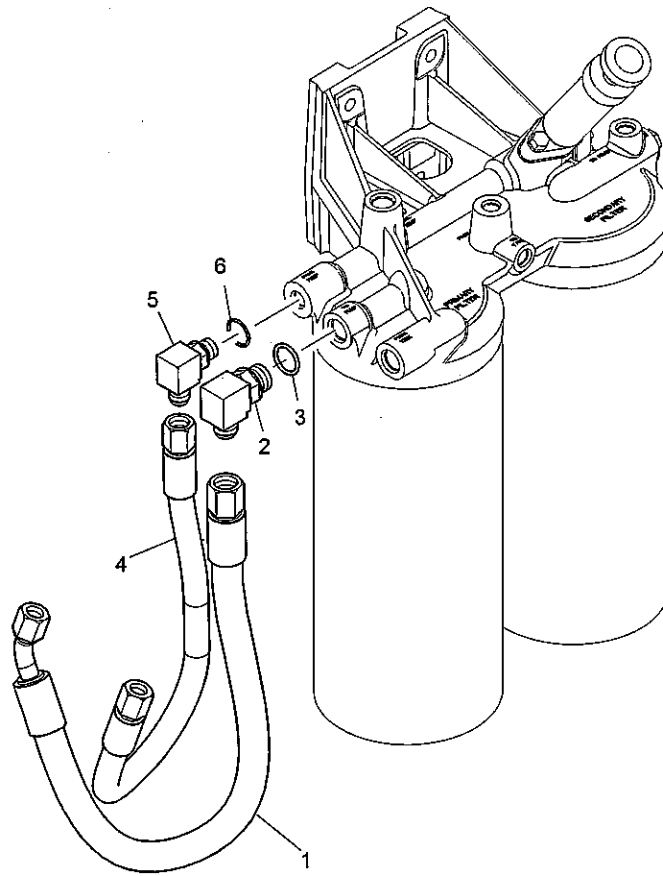
VBHS1096









Fuel Filter	Plate A
VBHS1096	

Item	Part No.	References	Qty.	Description	Notes
1	CH10930		1	PRE-FUEL FILTER	
2		⇒ CH10930	1	FUEL FILTER ELEMENT	
3	CH12010		1	SEAL	
4	CH11094		1	FILTER HOUSING	
5		⇒ CH11094	1	FILTER HOUSING	
6	CH10046		1	SEAL - O RING	
7	CH10284		1	PLUG	
8	CH10931		1	FUEL FILTER	
9		⇒ CH10931	1	FUEL FILTER ELEMENT	
10	CH12010		1	SEAL	
11	CH11096		1	FUEL FILTER HOUSING	
12		⇒ CH11096	1	FILTER HOUSING	
13	CH10046		1	SEAL - O RING	
14	CH10284		1	PLUG	

VBHD0132

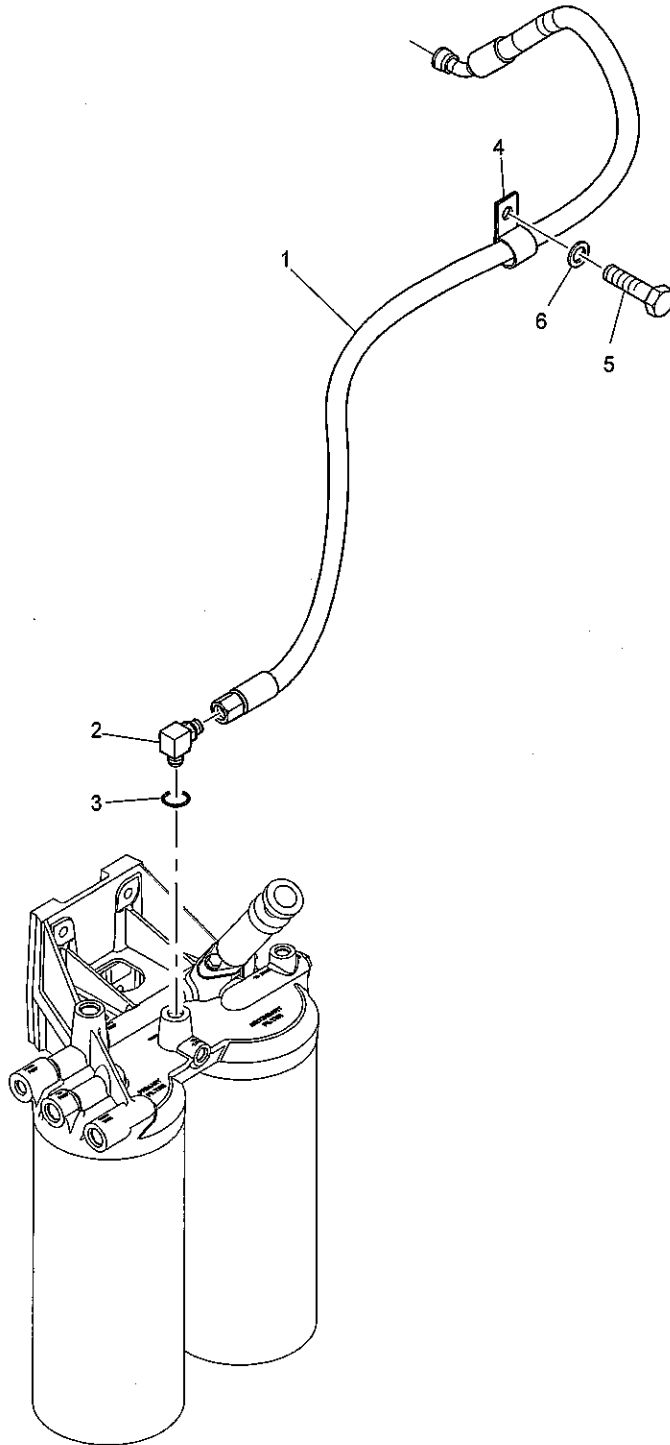


Pipework & Connections	Plate A
VBHD0132	



Item	Part No.	References	Qty.	Description	Notes
1	CH11002		1	PIPE - FUEL	
2	CH10893	 b.	2	CONNECTION	
3	T406205	 a.	2	SEAL - O RING	
		 b.			
4	CH11001	 c.	1	PIPE - FUEL	
		 c.			
5	CH10841		2	CONNECTION	
6	CH11880	 a.	2	SEAL - O RING	

History					
a.					
3	CH10230		2	SEAL - O RING	
6	CH10840		2	SEAL - O RING	
b.					
2	CH10893		1	CONNECTION	
3	CH10230		1	SEAL - O RING	
c. General History Section					
4	CH10840		1	SEAL - O RING	
4	CH10841		1	CONNECTION	

VBHD0132

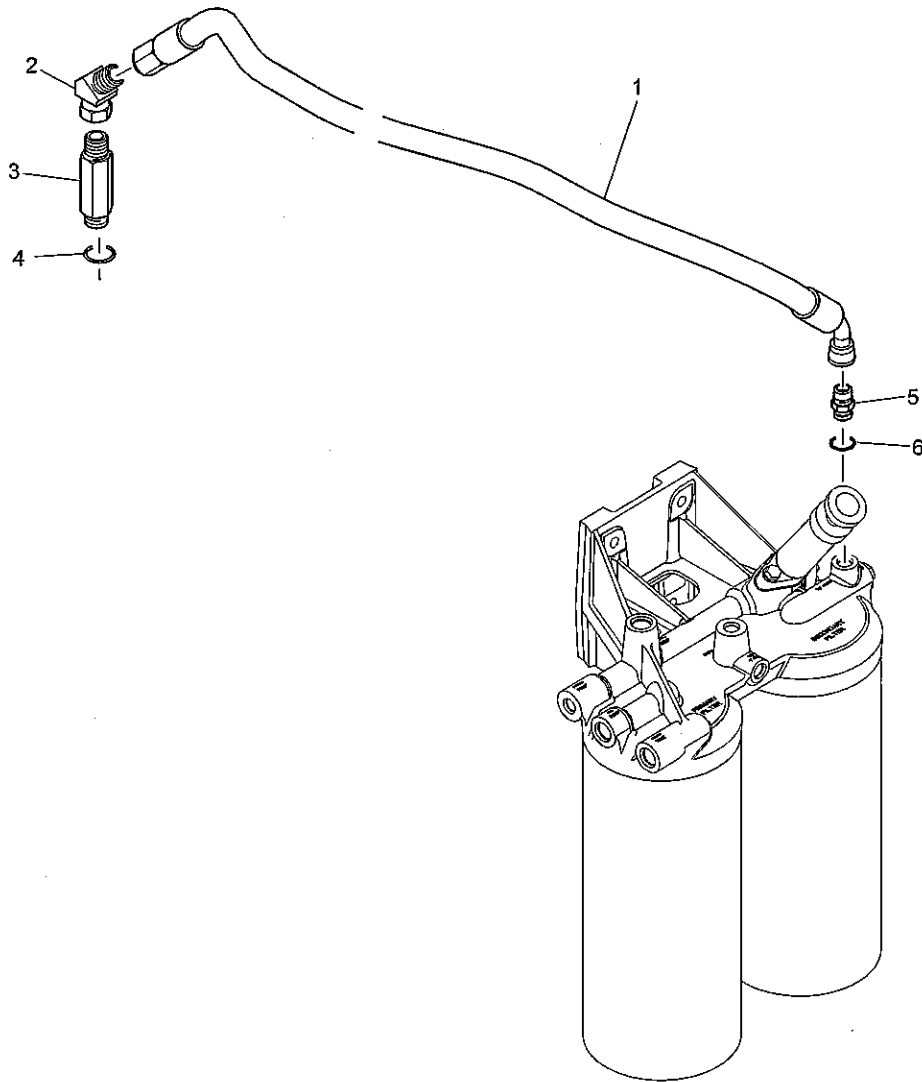


Pipework & Connections	Plate B
VBHD0132	

Item	Part No.	References	Qty.	Description	Notes
1	CH12348		1	HOSE	
2	CH10841		2	CONNECTION	
3	CH11880	 a.	2	SEAL - O RING	
4	T400205	 a.	2	PIPE CLIP	
5	CH10550		2	BOLT	
6	CH10255		2	WASHER	

History					
a.					
3	CH10840		2	SEAL - O RING	
4	CH10943		2	PIPE CLIP	
	CH11897		2	BOLT	
	CH10255		2	WASHER	

VBHD0132

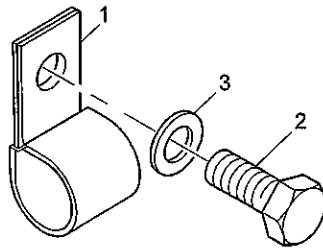


Pipework & Connections	Plate C
VBHD0132	

Item	Part No.	References	Qty.	Description	Notes
1	CH12347		1	HOSE	
2	CH12349		1	ELBOW	
3	CH11066		1	CONNECTOR	
4	CH11880	☐ a.	1	SEAL - O RING	
5	CH10026		1	CONNECTION	
6	CH11880	☐ a.	1	SEAL - O RING	

History					
a.					
4	CH10840		1	SEAL - O RING	
6	CH10840		1	SEAL - O RING	
	CH10943		2	PIPE CLIP	
	CH11897		1	BOLT	
	CH10255		1	WASHER	

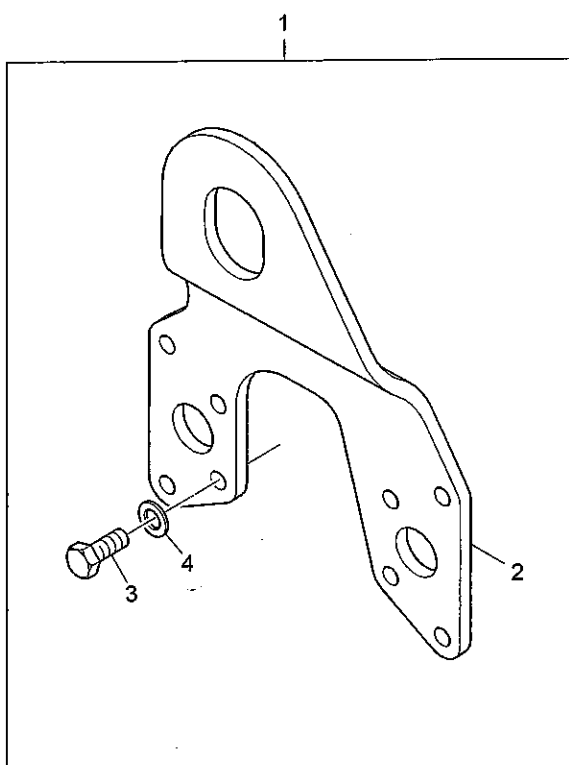
VIAFF



Low Pressure Fuel Pipe Clips	Plate A
VIAFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH10943		1	PIPE CLIP	
2	0748523		1	SCREW	
3	0920004		2	WASHER	

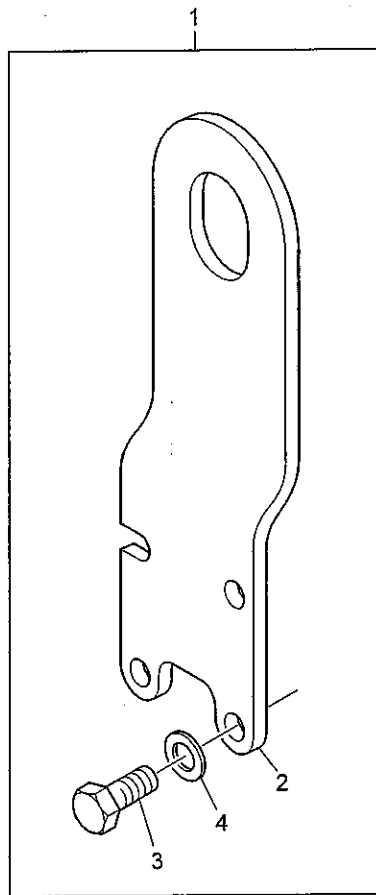
XBHS1032



Engine Lifting Eyes	Plate A
XBHS1032	

Item	Part No.	References	Qty.	Description	Notes
1	KRP1525		1	LIFTING EYE KIT	
2		⇒ KRP1525	1	LIFTING EYE	
3	—CH10537		8	BOLT	
4	—CH10541		8	WASHER	

XBHS1033

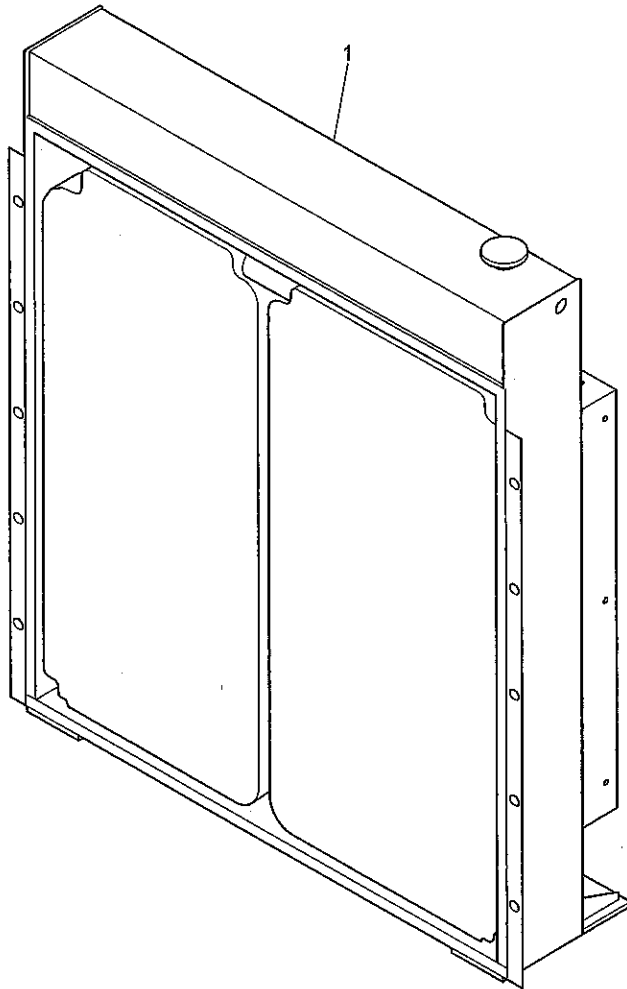


Engine Lifting Eyes	Plate A
	XBHS1033

Item	Part No.	References	Qty.	Description	Notes
1	KRP1526		1	LIFTING EYE KIT	
2		⇒ KRP1526	1	LIFTING EYE	
3	—CH10570		4	BOLT	
4	—CH10099		4	WASHER	

→ U16071T

Z1ZFF



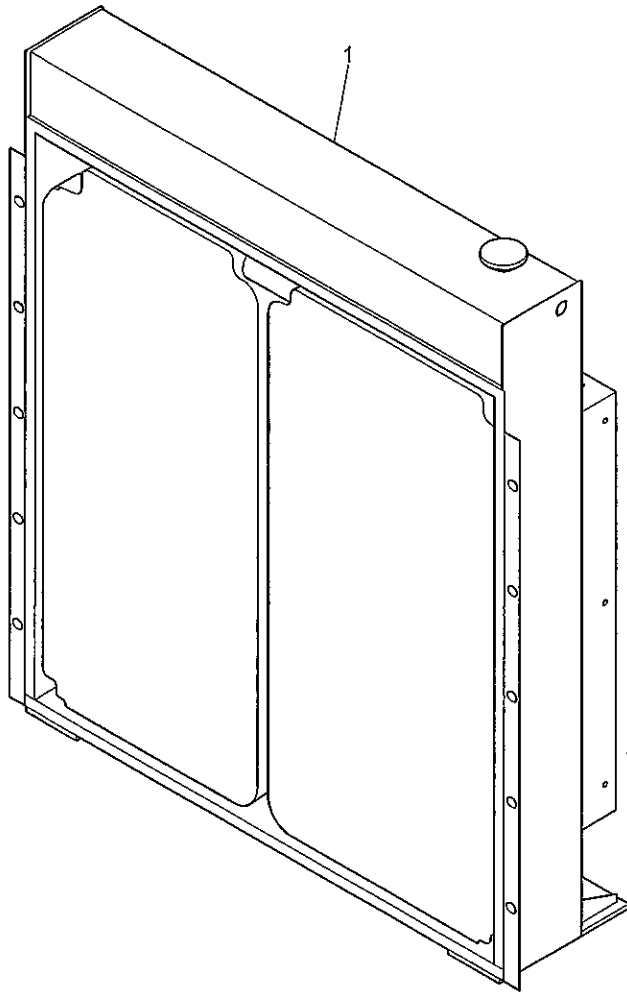
Radiator	Plate A
→ U16071T	Z1ZFF

Item	Part No.	References	Qty.	Description	Notes
1	CH11451	☐ a.	1	RADIATOR	(A)
2	—CH11452		1	COOLER	(B)
3	—CH12818		1	CHARGE COOLER	(B)
4	—CH12823		1	HEADER TANK	(B)
5	—CH12824		1	HEADER TANK	(B)
6	—CH12825		1	RADIATOR CAP	(B)
7	—CH12828		2	HOSE - COOLANT	(B)
8	—CH12829		2	HOSE - COOLANT	(B)
9	—CH12830		4	HOSE CLIP	(B)

History					
a.					
1	CH11451		1	RADIATOR	(A)
	—OD21657		1	HEADER TANK	
	—OD21658		1	HEADER TANK	
	—Y06/00017		1	RADIATOR CAP	

Footnotes	
(A)	REFER TO BULLETIN
(B)	NOT ILLUSTRATED

Z1ZFF

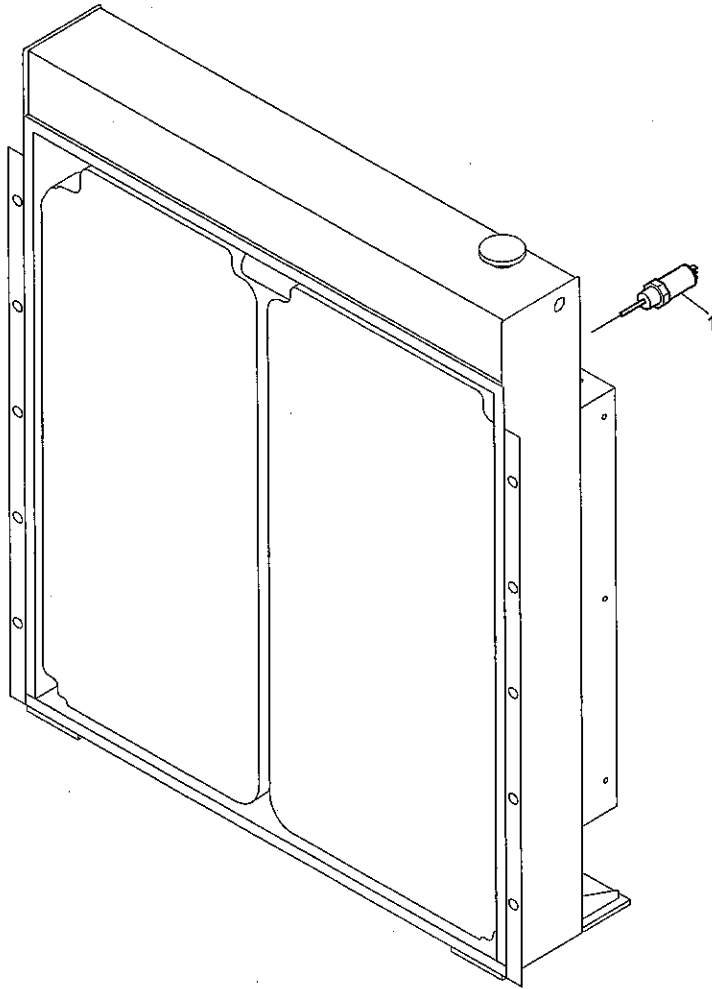


Radiator	Plate A
Z1ZFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH12091		1	RADIATOR	(A)
2	—CH12823	↖	1	HEADER TANK	(B)
3	—CH12824	↗	1	HEADER TANK	(B)
4	—CH12825		1	RADIATOR CAP	(B)
5	—CH12093		1	HEAT EXCHANGER	(B)
6	—CH12818		1	CHARGE COOLER	(B)
7	—CH12828		2	HOSE - COOLANT	(B)
8	—CH12829		2	HOSE - COOLANT	(B)
9	—CH12830		4	HOSE CLIP	(B)

Footnotes	
(A)	REFER TO BULLETIN
(B)	NOT ILLUSTRATED

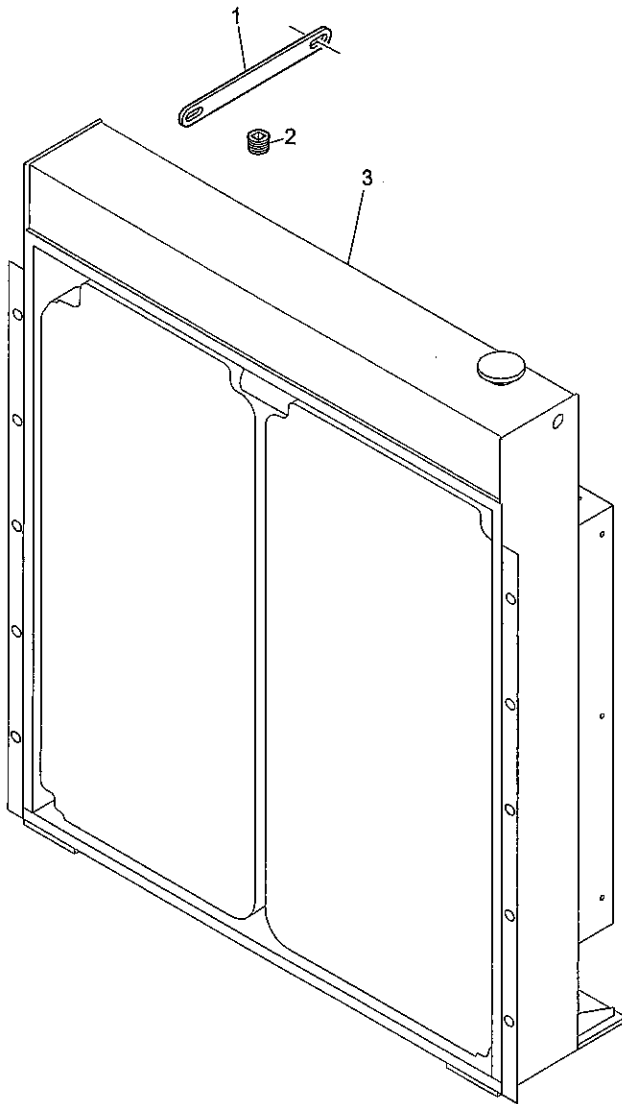
Z2PFF



Radiator Coolant Level Switch		Plate A
		Z2PFF

Item	Part No.	References	Qty.	Description	Notes
1	CV25001		1	SWITCH	

Z1EFF

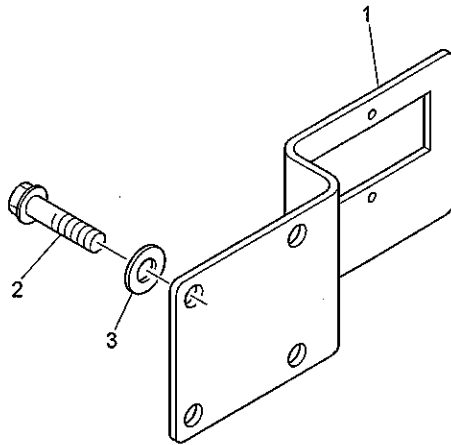


Radiator Pipe Straps	Plate A
ZIEFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH10979		2	BRACKET	
2	CH11500		2	PLUG	
3			1	RADIATOR	

History					
a.	CH11499		1	STRAP	
b.	CH11497		2	CLAMP	
	CH11498		2	SEAL - O RING	

Z1GFF

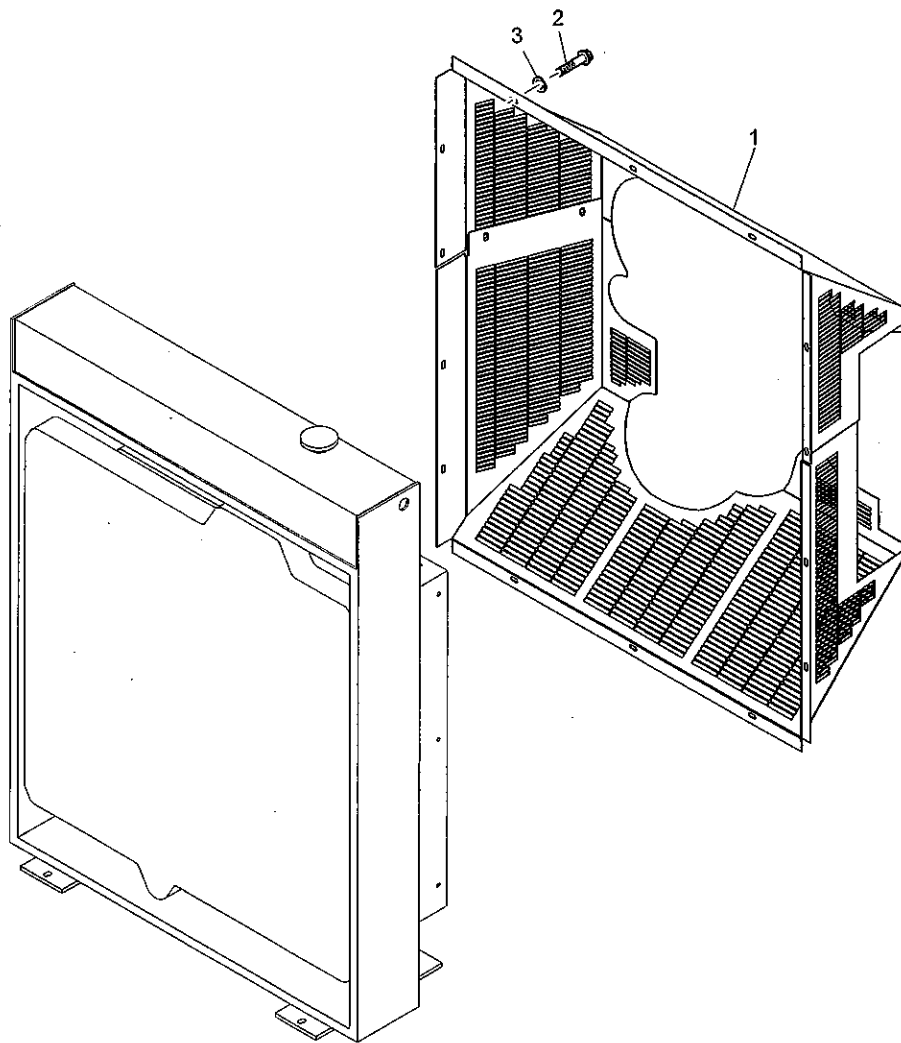


Radiator Bracket	Plate A
Z1GFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11405		1	BRACKET	
2	ST29003		4	BOLT	
3	ST15903		4	WASHER	

→ 13/12/2009

Z1CFF

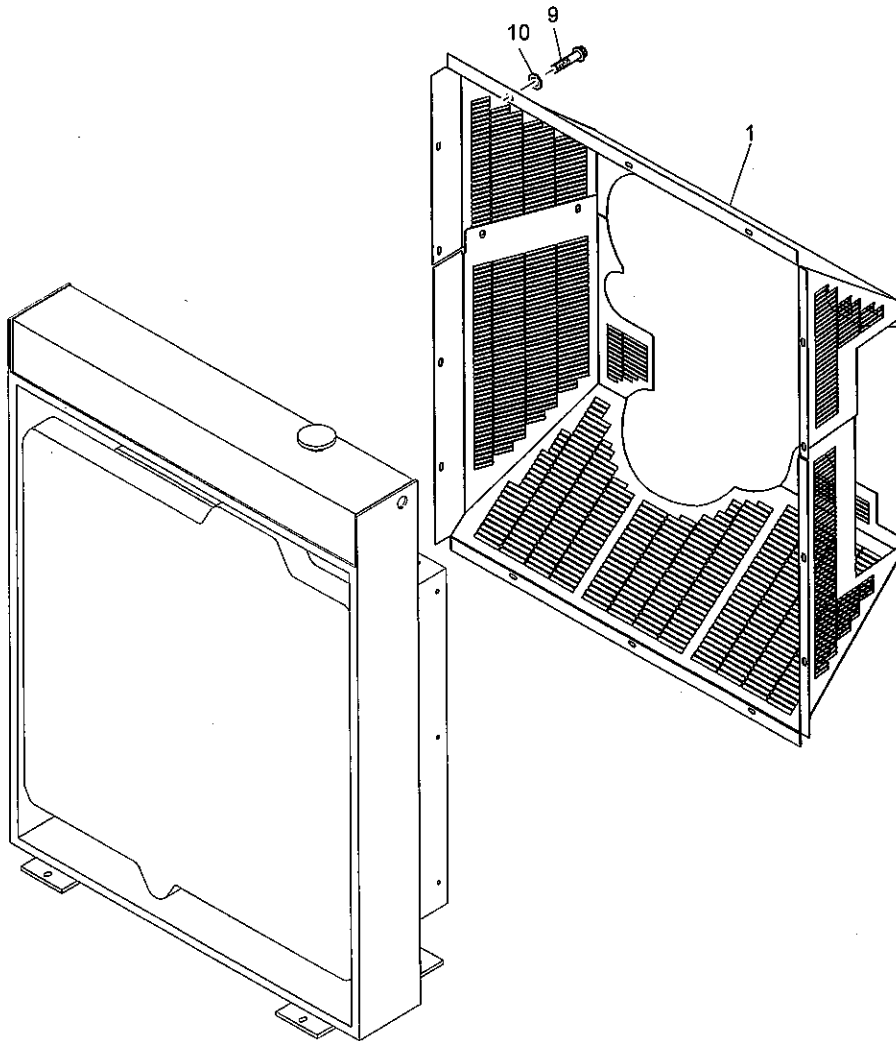


Radiator Guard	Plate A
→ 13/12/2009	Z1CFF

Item	Part No.	References	Qty.	Description	Notes
1	CH11446		1	FAN GUARD	
2	2314C044		17	SETSCREW	
3	2131A008		17	WASHER	

→ 14/12/2009

Z1CFF



Radiator Guard

Plate B

→ 14/12/2009

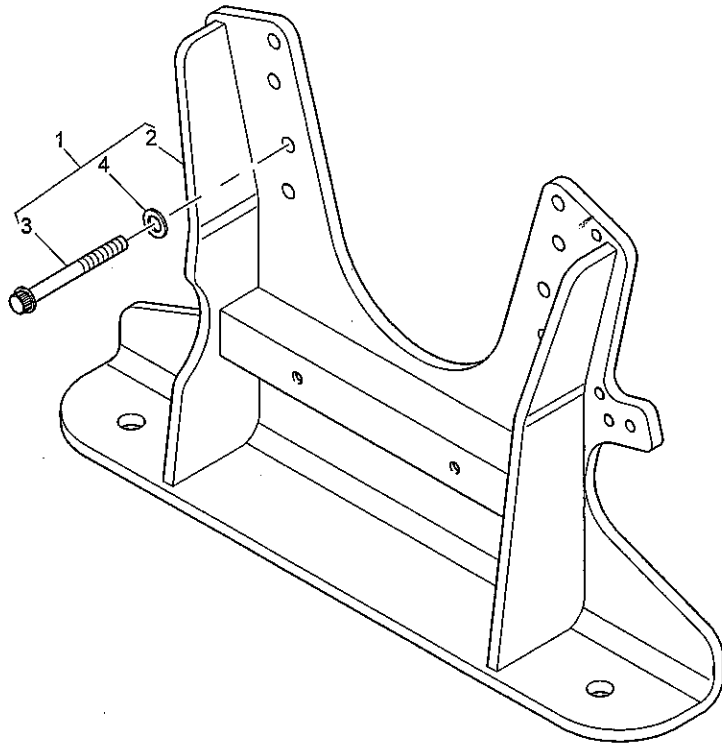
Z1CFF

Item	Part No.	References	Qty.	Description	Notes
1	CH12692		1	FAN GUARD	
2	—CH12691	↗	1	FAN GUARD	(A)
3	—CH12690	↘	1	FAN GUARD	(A)
4	—CH12777		1	DOOR	(A)
5	—2314K158		6	SCREW	(A)
6	—2318A401		6	NUT	(A)
7	—0730083		6	SEAL - O RING	(A)
8	—CH12625		1	LABEL	(A)
9	2314C044		17	SETSCREW	
10	2131A008		17	WASHER	

Footnotes

(A) NOT ILLUSTRATED

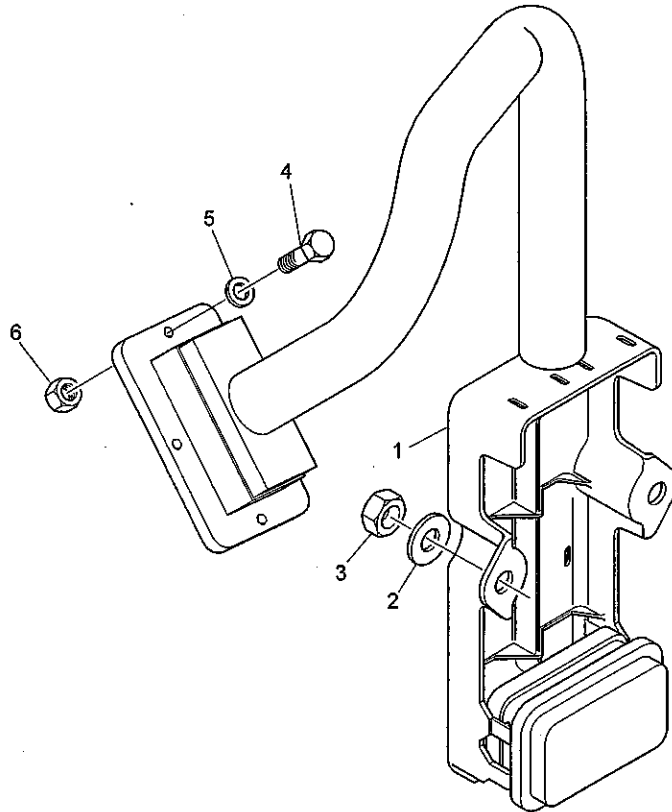
ZCHS1057



Engine Mounts	Plate A
ZCHS1057	

Item	Part No.	References	Qty.	Description	Notes
1	KRP1670		1	BRACKET	
2	—	⇒ KRP1670	1	MOUNTING BRACKET	
3	—T400183		8	BOLT	
4	—CH10099		8	WASHER	

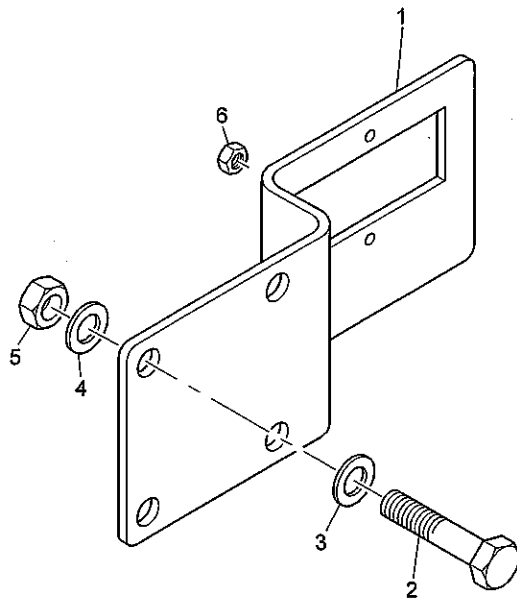
Z1HFF



Wiring Harness	Plate A
Z1HFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH12042		1	WIRING HARNESS	
2	CH10615		2	WASHER	
3	CH10290		2	NUT	
4	CV70599		2	BOLT	
5	CV70605		4	WASHER	
6	CV70600		2	NUT	

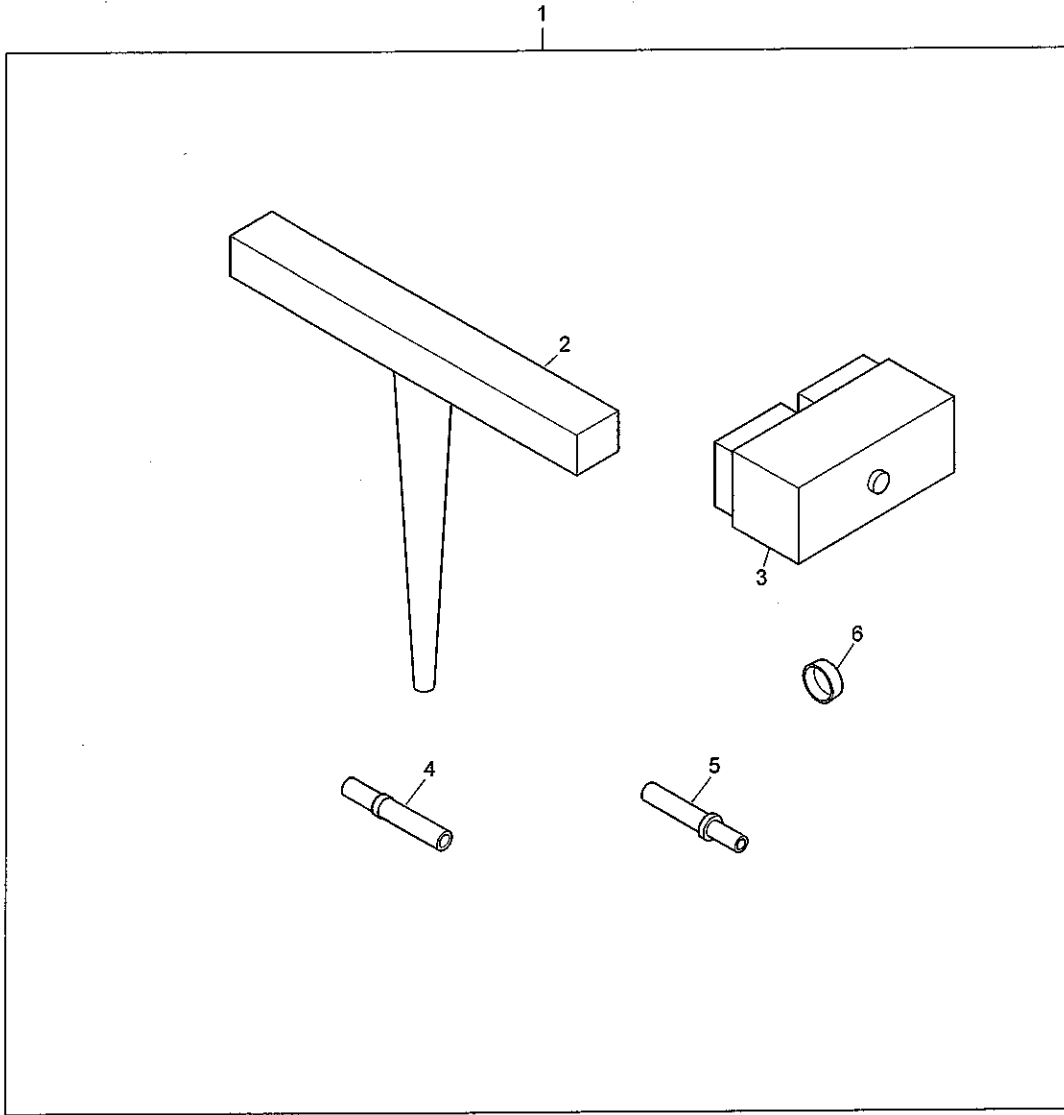
ZIDFF



Wiring Harness Bracket	Plate A
Z1DFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11405		1	BRACKET	
2	CV70599		2	BOLT	
3	CV70605		2	WASHER	
4	CV70605		2	WASHER	
5	CV70600		2	NUT	
6	2238153		1	NUT	

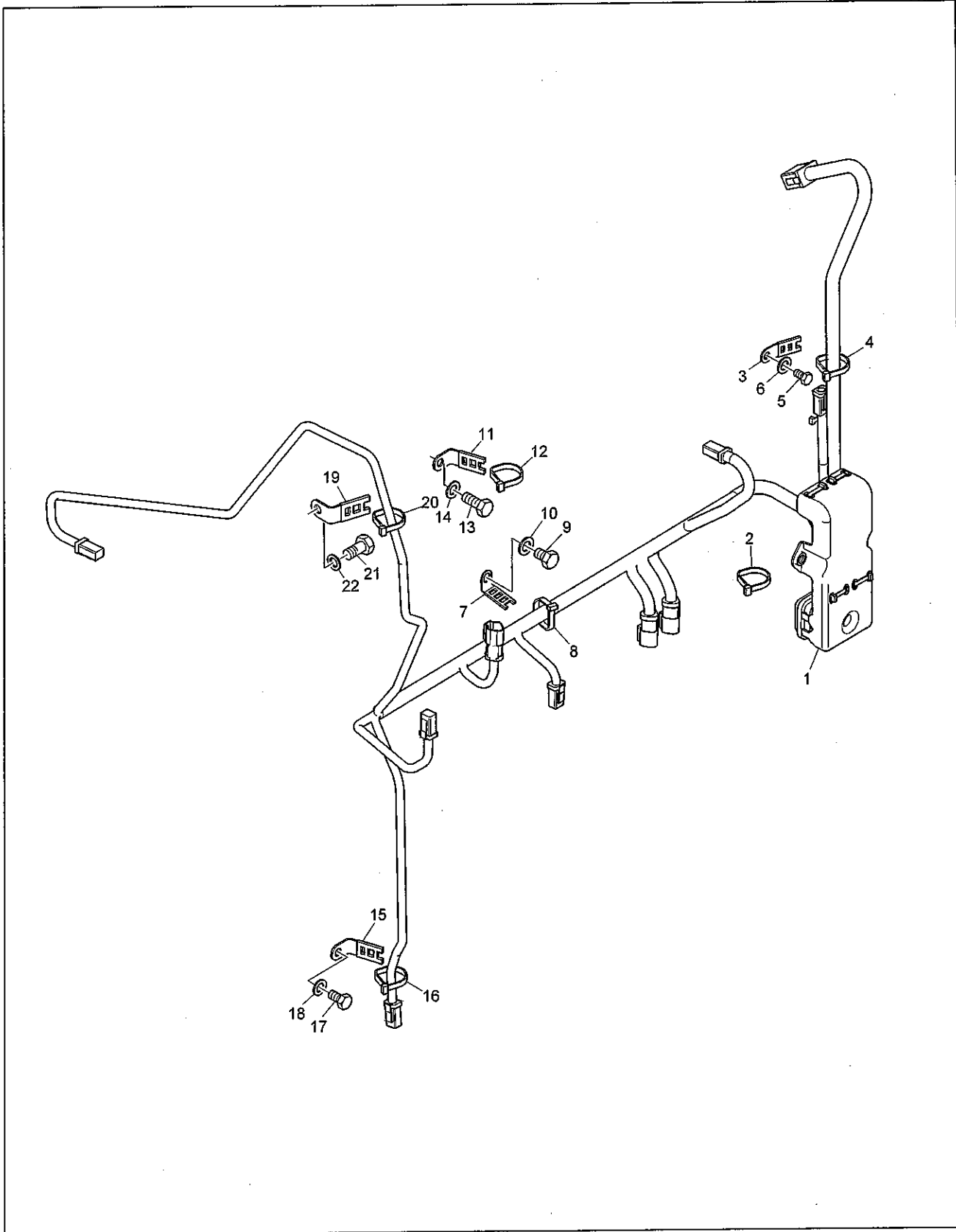
ZIMFF



Interface Connector	Plate A
Z1MFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH11173		1	CONNECTION KIT	
2	—CH11169		1	TOOL	
3	—CH11154		1	CONNECTOR	
4	—CH11170		40	SOCKET	
5	—CH11171		10	SOCKET	
6	—CH11918		40	PLUG	

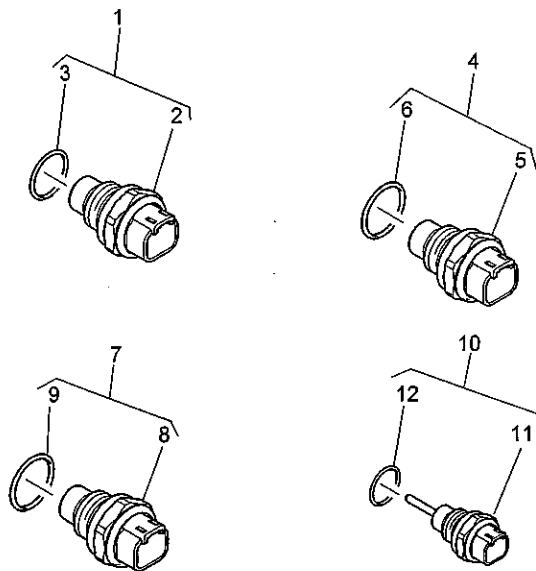
ZNHD0073



Wiring Harness	Plate A
ZNHD0073	

Item	Part No.	References	Qty.	Description	Notes
1	CH11985		1	WIRING HARNESS	
2	CH11981		1	CABLE TIE	
3	CH10071		2	CLIP	
4	CH10054		2	CABLE TIE	
5	CH10794		2	BOLT	
6	CH10541		2	WASHER	
7	CH10799		2	CLIP	
8	CH10054		2	CABLE TIE	
9	CH10797		2	BOLT	
10	CH10100		2	WASHER	
11	CH10072		1	CLIP	
12	CH10054		1	CABLE TIE	
13	CH10537		1	BOLT	
14	CH10541		1	WASHER	
15	CH10072		2	CLIP	
16	CH10054		2	CABLE TIE	
17	CH10794		2	BOLT	
18	CH10541		2	WASHER	
19	CH10072		1	CLIP	
20	CH10054		1	CABLE TIE	
21	CH10796		1	BOLT	
22	CH10277		1	WASHER	

ZNHD0200

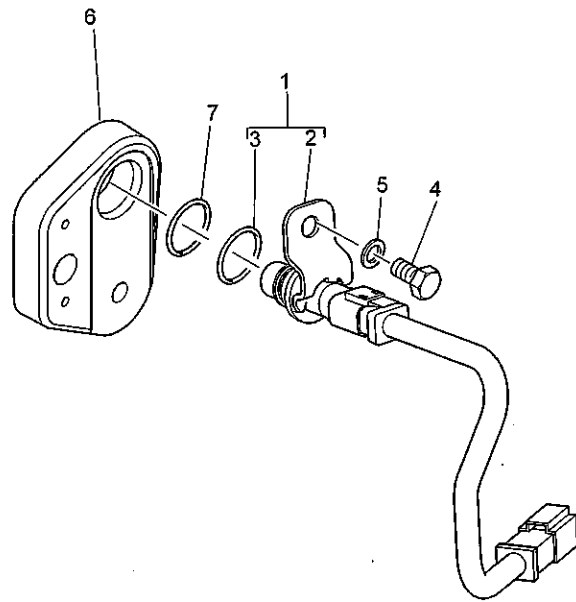


Temperature And Pressure Switch	Plate A
ZNHD0200	

Item	Part No.	References	Qty.	Description	Notes
1	CH12006		1	OIL PRESSURE SENSOR KIT	
2		⇒ CH12006	1	OIL PRESSURE SENSOR KIT	
3	CH10132		1	SEAL - O RING	
4	KRP1692		1	AIR PRESSURE SENSOR KIT	
5		⇒ KRP1692	1	SENSOR	
6	CH10132		1	SEAL - O RING	
7	KRP1693		1	AIR PRESSURE SENSOR KIT	
8		⇒ KRP1693	1	TEMPERATURE SENSOR	
9	CH10133		1	SEAL - O RING	
10	KRP1688		1	TEMPERATURE SENSOR	(A)
11		⇒ KRP1688	1	TEMPERATURE SENSOR	
12	CH10146		1	SEAL - O RING	

Footnotes	
(A)	WATER TEMPERATURE

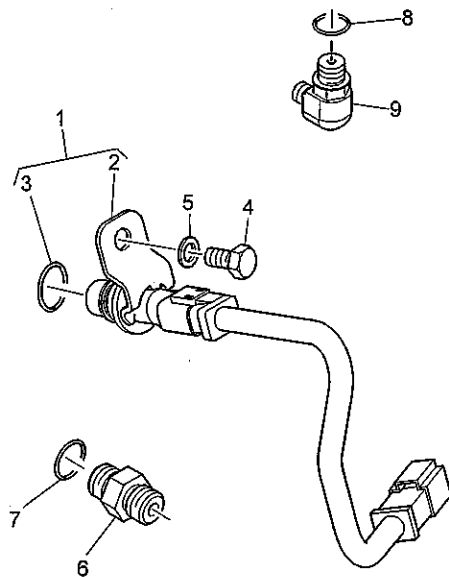
ZNHD0200



Speed Switch	Plate B
ZNHD0200	

Item	Part No.	References	Qty.	Description	Notes
1	CH12003		1	SPEED SENSOR	
2	└	⇒ CH12003	1	SENSOR	
3	└ CH12356		1	SEAL - O RING	
4	CH10796		1	BOLT	
5	CH10277		1	WASHER	
6	CH10867		1	SPACER	
7	CH10870		1	SEAL - O RING	

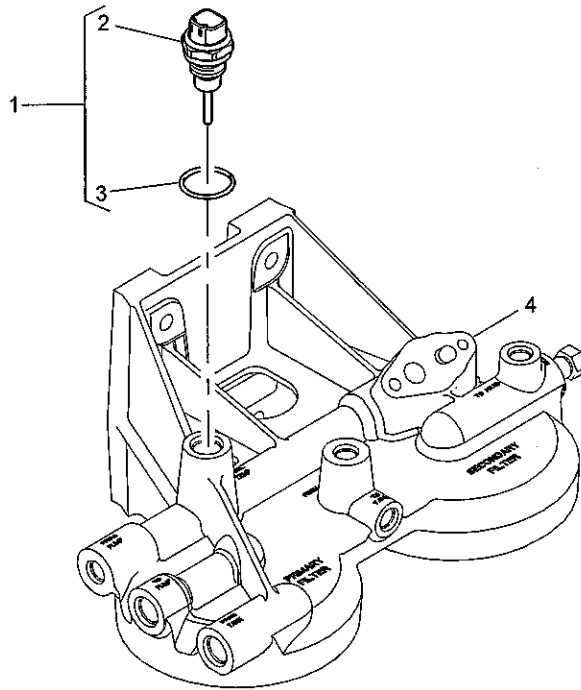
ZNHD0200



Speed Sensor	Plate C
ZNHD0200	

Item	Part No.	References	Qty.	Description	Notes
1	CH12004		1	SPEED SENSOR	
2	└	⇒ CH12004	1	SENSOR	
3	└ CH12356		1	SEAL - O RING	
4	CH10796		1	BOLT	
5	CH10277		1	WASHER	
6	CH10873		1	CONNECTOR	
7	CH10132		1	SEAL - O RING	
8	CH10133		1	SEAL - O RING	
9	CH12001		1	ELBOW	

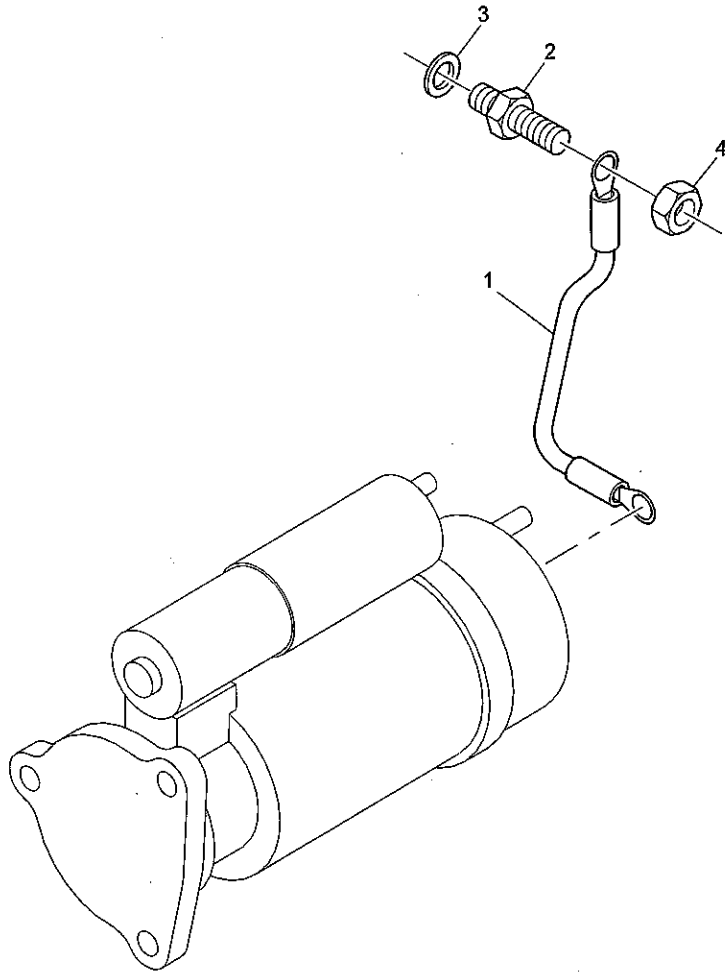
ZNHD0200



Temperature Sensor	Plate D
ZNHD0200	

Item	Part No.	References	Qty.	Description	Notes
1	KRP1687		2	TEMPERATURE SENSOR	
2	└─ └─CH10230	⇒ KRP1687	1	TEMPERATURE SENSOR	
3			1	SEAL - O RING	

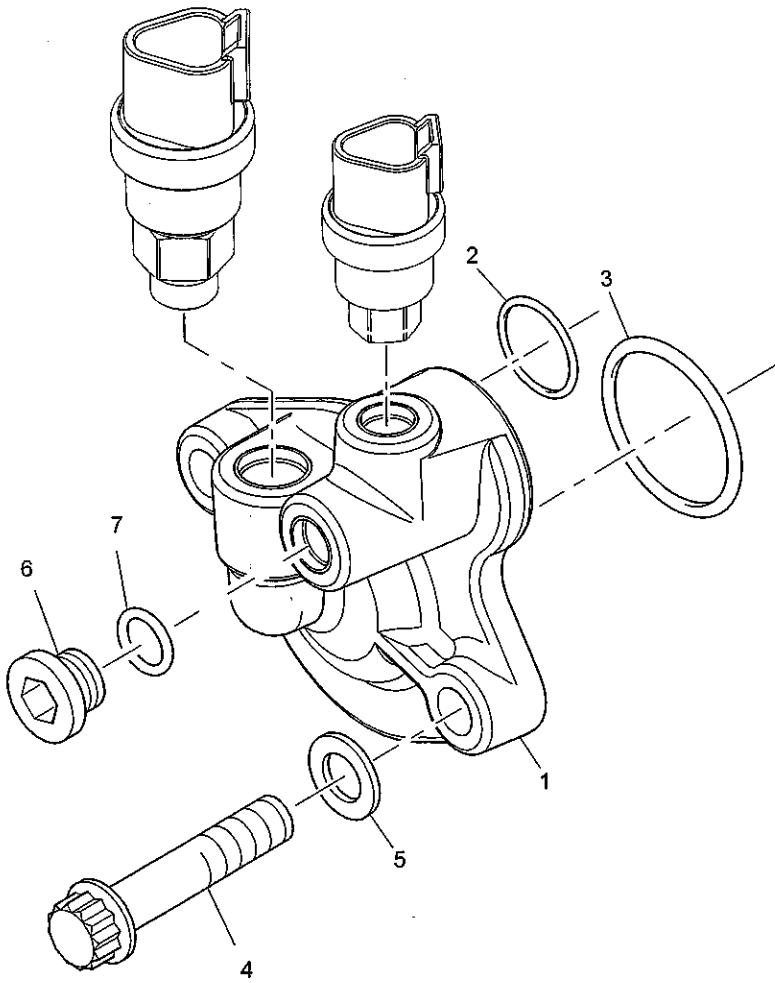
ZNHS1038



Earth Strap	Plate A
	ZNHS1038

Item	Part No.	References	Qty.	Description	Notes
1	CH11093		1	EARTH STRAP	
2	CH10707		1	BOLT	
3	CH10255		1	WASHER	
4	CH10798		1	NUT	

ZNHS1047

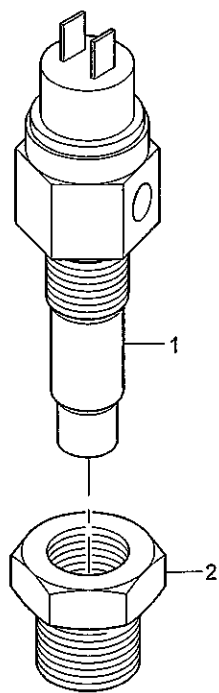


Sensor Mounting	Plate A
ZNHS1047	

Item	Part No.	References	Qty.	Description	Notes
1	CH10907		1	ADAPTOR	
2	CH10875		1	SEAL - O RING	
3	CH10228		1	SEAL - O RING	
4	T400184	ⓐ a.	2	BOLT	
5	CH10541		2	WASHER	
6	CH10285	ⓐ a.	1	PLUG	
7	T409314	ⓐ a.	1	SEAL - O RING	

History					
a.					
4	CH10567		2	BOLT	
6	CH10282		1	PLUG	
7	CH10132		1	SEAL - O RING	

ZIAFF

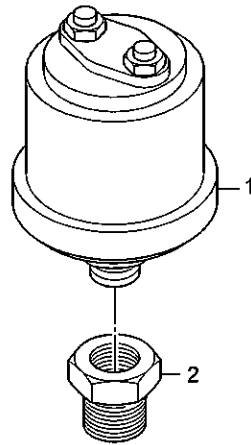


Temperature Switch	Plate A
Z1AFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH12893	<input checked="" type="checkbox"/> a.	1	TEMPERATURE SENSOR	
2	OE51375		1	ADAPTOR	

History					
a.					
1	CV18338/5		1	TEMPERATURE SENSOR	

ZIBFF



Pressure Switch	Plate A
Z1BFF	

Item	Part No.	References	Qty.	Description	Notes
1	CH12894	ⓐ a.	1	OIL PRESSURE SENDER	
2	CH11138		1	ADAPTOR	

History					
a.					
1	CV18339/2		1	OIL PRESSURE SENDER	(A)

Footnotes					
(A)	OIL PRESSURE SWITCH				

SACS1656

1

Top Service Kit

Kit d'Entretien Haut du Moteur

Wartungssatz für Motoroberteil

Kit per la manutenzione della parte superiore del motore

Juego de Servicio Superior

SACS1656

Item	Part No.	References	Qty.	Description	Notes
1	KRP1656		1	GASKET KIT - TOP	
2	—CH10660		1	SEAL - O RING	
3	—CH10230		1	SEAL - O RING	
4	—CH10132		2	SEAL - O RING	
5	—CH10133		6	SEAL - O RING	
6	—CH10229		12	SEAL - O RING	
7	—CH10331		1	GASKET	
8	—CH11614		1	SEAL - O RING	
9	—CH10587		1	SEAL - O RING	
10	—CH10667		1	SEAL - O RING	
11	—CH11486		24	SEAL - VALVE STEM	
12	—CH10723		6	SEAL - O RING	
13	—CH10726		6	SEAL - O RING	
14	—CH10727		6	SEAL - O RING	
15	—CH11560		1	SEAL	
16	—CH11561		1	GASKET	
17	—CH11479		1	SEAL - O RING	
18	—CH10840		1	SEAL - O RING	
19	—CH10870		1	SEAL - O RING	
20	—CH11353		1	SEAL - ROCKER BOX COVER	
21	—CH11079		1	SEAL - O RING	
22	—KRP1529		1	GASKET KIT	
23	—KRP1643		1	SEAL KIT	
24	—CH11917		1	GASKET - EXHAUST OUTLET	
25	—CH11761		2	GASKET - TURBOCHARGER	

SGBS1657

1

Bottom Joints & Gasket Kit

Kit d'Entretien Bas du Moteur

Wartungssatz für Motorunterteil

Kit per la manutenzione della parte inferiore del motore

Juego de Servicio de la Parte Inferior

Bottom Service Kit	Plate A
	SGBS1657

Item	Part No.	References	Qty.	Description	Notes
1	KRP1657		1	GASKET KIT - BOTTOM	

Description	Part No.	Page
ADAPTOR	CH10594	35
	CH10627	41
	CH10888	113
	CH10907	233
	CH11138	237
	CH11564	145, 145
	CH11647	123
	CH12390	93
	OE51375	235
AIR FILTER ASSEMBLY	CH11038	163
AIR PIPE	CH11370	211
AIR PRESSURE SENSOR KIT	KRP1692	223
	KRP1693	223
ALTERNATOR	CH11087	131
	CH12876	137
ALTERNATOR BRACKET	CH11034	141
	CH12835	143
ALTERNATOR PULLEY	CH11036	135
	CH12877	137
BALL	CH12374	93
BALL BEARING	CH10004	35
	CH11444	85, 85, 85, 87, 87, 89
	CH12375	93
	CH12382	93

Description	Part No.	Page
BAND	CH10673	13, 15
	CH11221	165
BELT	CH11037	135
	CH11186	83
BIG END BEARING KIT	KRP3022	51
BIG END BRG KIT - U/S	KRP3016/064	51
	KRP3016/127	51
BLANKING COVER	CH10539	19, 75
	CH10562	19
	CH11552	19
BOLT	0096439	139
	CH10160	69
	CH10237	79
	CH10537	59, 75, 119, 193, 221
	CH10538	19, 75, 147, 149
	CH10550	35, 95, 187
	CH10557	127, 129, 181
	CH10566	37, 69
	CH10567	35, 95, 95, 105, 113, 115, 119, 173, 233
	CH10570	195
CH10582	67	

Parts Index

Description	Part No.	Page
	CH10583	35
	CH10585	93, 99, 151, 159
	CH10586	99
	CH10600	53, 57
	CH10609	39, 41, 43, 45, 149, 181
	CH10611	39
	CH10616	41
	CH10618	41
	CH10621	39, 43, 45
	CH10679	13, 15
	CH10707	231
	CH10712	23
	CH10713	23
	CH10733	155, 157
	CH10735	97
	CH10748	95, 97
	CH10751	121, 121
	CH10753	121
	CH10791	59, 65, 159
	CH10794	101, 221, 221
	CH10796	221, 225, 227
	CH10797	221
	CH10809	123
	CH10813	85, 87

Description	Part No.	Page
	CH10814	115
	CH10815	19, 59, 115, 145
	CH10848	181
	CH10938	69
	CH11468	53
	CH11476	59, 159
	CH11554	19
	CH11565	151
	CH11585	75
	CH11586	75
	CH11587	75
	CH11590	73
	CH11645	95
	CH11649	123
	CH11652	123
	CH11895	19, 59, 75, 121, 125, 153
	CH11897	107, 187, 189
	CH12377	93
	CV19793	85
	CV70599	215, 217
	ST29003	161, 205
	ST43502	211
	ST43552	81
	ST44456	91
	T400183	213

Description	Part No.	Page
	T400184	233
	T400186	69
	T400187	69
	T400209	15
	UF1676	133
BRACKET	CH10979	203
	CH11363	161, 169
	CH11364	161, 169
	CH11378	211
	CH11405	205, 217
	CH11932	71
	KRP1670	213
BRIDGE	CH10680	37
BRIDGE PIECE	CH12831	37
BUSH	CH10746	97
	CH12834	87, 89
BUTTON	CH10689	37
	CH11078	37
CABLE TIE	CH10054	221, 221, 221, 221, 221
	CH10827	69
	CH11981	221
CAMSHAFT	CH11520	47
CAMSHAFT BUSH	CH11228	21
CAMSHAFT GEAR	CH10910	41
	T400235	41
CAP	CH10195	69

Description	Part No.	Page
	CV10891	163
CAPSCREW	ST29054	141, 143
CHARGE COOLER	CH12818	197, 199
CIRCLIP	2721351	85, 87
	2722A022	85, 87
	CH11508	49, 49, 55, 55
	CH11992	55, 55
	T400229	89
	T400230	89
CLAMP	819/489	169
	CH10790	65
	CH11110	211, 211
	CH11337	211
	CH11497	203, 211
CLIP	CH10071	221
	CH10072	221, 221, 221
	CH10799	221
	CH10850	107
	ST46408	109
	ST46410	211
	ST46411	211
CON ROD ASSEMBLY	CH11507	51
CON ROD BOLT	CH11684	51
CONNECTION	CH10026	189
	CH10841	185, 185, 187

Parts Index

Description	Part No.	Page
	CH10893	185, 185
CONNECTION KIT	CH11173	219
CONNECTOR	CH10806	145
	CH10873	227
	CH11066	189
	CH11154	219
COOLER	CH11452	197
COUPLING	CH11635	159
COVER	CH11287	163
	CH11576	159
	CH11618	121
CRANKSHAFT ASSEMBLY	CH11521	33
CRANKSHAFT GEAR	CH11687	33
CRANKSHAFT PULLEY	CH11648	123
CYL HEAD COVER ASSY	CH11512	27
CYLINDER BLOCK ASSEMBLY	CH11924	13
	CH12744	15
	T400210	15
CYLINDER HEAD ASSEMBLY	CH11399	21, 21
CYLINDER HEAD KIT - EXCH	R/CH11399	21
CYLINDER LINER	CH11922	13
DAMPER	CH11646	123
	CH11745	123

Description	Part No.	Page
DIPSTICK ASSEMBLY	CH10980	101
DOOR	CH12777	209
DOWEL	CH10641	41
	CH10653	33
	CH10656	17
	CH10658	17
	CH10659	17
	CH10661	17
	CH10747	97
	DRAIN PLUG	CH10939
CH11571		95
CV12198		211
DRIVE SHAFT	CH10863	97
DUST SHIELD	CH11411	181
EARTH STRAP	CH11093	231
ELBOW	CH11481	211
	CH11558	149
	CH11624	151
	CH12001	227
	CH12349	189
END COVER	CH10588	47
	CH10861	97
ENGINE CONTROL MODULE	R/CH12104	71
	R/CH12895	71
EXCHANGE ALTERNATOR	R/CH11087	131
EXHAUST ELBOW	CH11636	159

Description	Part No.	Page
EXHAUST FLANGE	CH11442	177
EXHAUST MANIFOLD	CH11556	175
	CH11557	175
EXHAUST VALVE	CH11022	21
FAN	CH11691	91
FAN ADAPTOR	CH11026	81
FAN DRIVE PULLEY	CH12388	93
FAN GUARD	CH11446	207
	CH12690	209
	CH12691	209
	CH12692	209
FANDRIVE	CH12385	93, 93
FASTENER	CH10955	27
FILTER HOUSING	CH11094	183
	KRP1570	111
FLYWHEEL ASSEMBLY	CH11591	73
FLYWHEEL HOUSING	CH11584	75
	CH12371	75
FUEL FILTER	CH10931	183
FUEL FILTER HEAD	CH11075	181
	CH12434	181
FUEL FILTER HOUSING	CH11096	183
FUEL INJECTION PUMP GEAR	CH10592	35
GASKET	CH10008	181

Description	Part No.	Page
	CH10331	239
	CH10540	75
	CH10579	119, 159
	CH10625	41
	CH10940	75
	CH11398	17
	CH11561	149, 151, 239
GASKET - BLANKING PLATE	CH10310	19
GASKET - EXHAUST MANIFOLD	CH11882	175
GASKET - EXHAUST OUTLET	CH11917	177, 179, 239
GASKET - SUMP	CH11904	95, 95
	CH12739	95, 95
GASKET - TIMING CASE	CH10829	59
GASKET - TURBOCHARGER	CH11761	155, 157, 239
GASKET KIT	KRP1529	239
GASKET KIT - BOTTOM	KRP1657	241
GASKET KIT - TOP	KRP1656	239
GUDGEON PIN	CH11503	49, 55
HEADER TANK	CH12823	197, 199
	CH12824	197, 199
	OD21657	197
	OD21658	197
HEAT EXCHANGER	CH12093	199

Parts Index

Description	Part No.	Page
HEATSHIELD	CH11593	153
HOSE	CH11128	211
	CH11336	211
	CH11382	167
	CH11383	169
	CH11386	169
	CH12347	189
	CH12348	187
	ST91230	211
	ST91237	211
HOSE - COOLANT	CH12828	197, 199
	CH12829	197, 199
HOSE CLIP	525/34M	167, 169
	525/37	169
	525/62	167
	CH12830	197, 199
HOUSING	CH11224	121
IDLER GEAR	CH10632	45
	CH10635	43
	CH10963	39
	CH11526	39
IMPELLER	CH11943	127, 129
INDICATOR	CV5479	165
INJECTOR	CH12071	65
	CH12341	65
INJECTOR - EXCHANGE	R/CH12071	65

Description	Part No.	Page
INJECTOR HARNESS	CH10974	69
INLET ELBOW	CH10343	173
	CH11613	173
INTAKE MANIFOLD DUCT	CH11365	169
INTAKE VALVE	CH11021	21
LABEL	CH12625	209
LIFT PUMP	KRP1679	67
	KRP1721	67
LIFTING EYE KIT	KRP1525	193
	KRP1526	195
LINER - PRESS FIT	CH12738	15
	CH12742	15
LOCKNUT	CH10734	155, 157, 175
	CH10785	95
MAIN AIR FILTER	SEV551F/4	163
MAIN BEARING KIT	KRP3118	33
	KRP3122	33
MAIN BEARING KIT - U/S	KRP3116/025	33
	KRP3116/050	33
	KRP3117/025	33
	KRP3117/050	33
METRIC BOLT	2315A381	165
METRIC NUT	2318D010	165
MOUNTING BRACKET	CH10977	69
	CH11105	171

Description	Part No.	Page
	CH11665	211
NON RETURN VALVE	CH12017	181, 181
NUT	0576304	139
	2238153	217
	2318A210	85, 85, 85, 87, 87
	2318A401	209
	CH10290	43, 45, 215
	CH10564	63
	CH10688	37
	CH10798	35, 231
	CH11077	37
	CH12697	37
	CV5324	85
	CV70600	215, 217
	T400231	89, 89
	T400403	37
UF4357	133	
OIL COOLER	CH11631	117
OIL FILLER CAP	CH11103	105
OIL FILLER TUBE	CH11599	105
OIL FILTER	CH10929	111
OIL FILTER ASSEMBLY	KRP1719	111
OIL FILTER HEAD	CH10818	113
	CH11579	113
OIL PIPE	CH10786	95

Description	Part No.	Page
OIL PRESSURE SENDER	CH12894	237
	CV18339/2	237
OIL PRESSURE SENSOR KIT	CH12006	223
OIL PUMP	CH10860	97
OIL PUMP - EXCHANGE	R/CH10860	97
OIL PUMP GEAR	CH10622	39
PIN	CH10652	33
	CH11494	51
PIPE	CH10752	121
	CH11368	211
	CH11369	211
PIPE - AIR	CH11362	167
PIPE - BREATHER	CH10962	109
PIPE - FUEL	CH11001	185
	CH11002	185
PIPE - OIL SUCTION	CH11903	95
PIPE - TURBO OIL DRAIN	CH11626	149
	CH11627	151
PIPE - TURBO OIL FEED	CH11625	147
	CH11628	145
PIPE CLIP	CH10943	187, 189, 191
	CH11563	147
	CH11566	145
	T400203	145

Parts Index

Description	Part No.	Page
	T400205	187
PISTON COOLING JET	CH12344	53, 53
	T400197	53, 57
PISTON KIT	KRP3020	49
	KRP3026	49
	KRP3032	55, 55
PISTON RING KIT	KRP3021	49
	KRP3033	55
PIVOT	CH12510	37
	CH12702	37
PLAIN WASHER	CH11933	71
PLATE	CH11570	95
PLUG	CH10032	21
	CH10220	75, 93, 119, 119, 119
	CH10221	17
	CH10258	21
	CH10259	95, 119
	CH10260	119, 119, 121, 121
	CH10262	75, 113, 173
	CH10263	119
	CH10282	95, 233
	CH10284	111, 113, 183, 183
	CH10285	31, 95, 233

Description	Part No.	Page
	CH10286	21, 29, 181
	CH10287	29, 29, 31, 31, 31, 181
	CH10291	113
	CH10568	17, 159
	CH10663	17
	CH10664	17
	CH10666	17
	CH10722	21
	CH10795	103
	CH11375	29
	CH11410	181
	CH11500	203
	CH11545	127, 129
	CH11588	75
	CH11622	121
	CH11918	219
	CH12474	121
	T400206	17
PLUNGER	CH10738	97
PRE-FUEL FILTER	CH10930	183
PRIMING PUMP	CH10439	181
RADIATOR	CH11451	197, 197
	CH12091	199
RADIATOR CAP	CH12825	197, 199
	Y06/00017	197
RELIEF VALVE	CH10513	113

Description	Part No.	Page
	CH12376	93
	CH12908	93
RETAINER	CH10736	97
RETAINING PLATE	CH10559	127, 129
RING	CH12433	93
ROCKER ARM ASSEMBLY	CH11161	37
	CH11165	37
	CH12698	37
	T400223	37
	T400224	37
ROCKER SHAFT	CH10685	37
	CH12695	37
ROLLER BEARING	CH10558	127, 129
SCREW	0748523	191
	2186431	139
	2314K158	209
	2315C066	93
	CH10946	61
	CH11076	37
	CH11916	37
	CH12701	37
SCREW METRIC	CH10589	47
SEAL	CH10703	25
	CH10757	119
	CH11352	61
	CH11560	19, 149, 151, 239

Description	Part No.	Page
	CH12010	111, 111, 183, 183
	CH12062	75
	CH12063	75
	CH12378	93
	CH12791	129
	T400196	19
SEAL - FRONT END OIL	CH11379	33
SEAL - O RING	0730083	209
	CH10046	111, 181, 183, 183
	CH10048	181
	CH10091	113
	CH10119	29
	CH10131	181, 181
	CH10132	95, 223, 223, 227, 233, 239
	CH10133	113, 113, 223, 227, 239
	CH10146	29, 31, 31, 223
	CH10224	115
	CH10228	233
	CH10229	37, 239
	CH10230	185, 185, 229, 239
CH10316	113	
CH10340	67	

Parts Index

Description	Part No.	Page
	CH10544	119, 119
	CH10545	129
	CH10587	47, 239
	CH10590	35
	CH10612	41
	CH10620	41
	CH10657	17
	CH10660	17, 25, 239
	CH10665	95
	CH10667	17, 239
	CH10723	21, 239
	CH10726	21, 239
	CH10727	21, 239
	CH10755	121
	CH10766	121
	CH10816	115
	CH10839	181
	CH10840	185, 185, 187, 189, 189, 239
	CH10870	225, 239
	CH10875	233
	CH11079	37, 239
	CH11102	105
	CH11139	111
	CH11479	145, 239
	CH11498	203, 211
	CH11562	151

Description	Part No.	Page
	CH11568	127
	CH11573	95
	CH11614	173, 239
	CH11619	121
	CH11621	121, 121
	CH11679	159
	CH11880	21, 29, 145, 181, 181, 185, 187, 189, 189
	CH11905	95
	CH11906	95
	CH12356	225, 227
	CH12384	93
	T400188	145, 181
	T400201	95
	T400222	115
	T406205	29, 31, 181, 185
	T409314	31, 95, 233
SEAL - OIL	CH11654	13, 15
	CH11655	13
	CH11656	13, 15, 15
SEAL - REAR END OIL	CH11304	75
SEAL - ROCKER BOX COVER	CH11353	27, 239
SEAL - THERMOSTAT HOUSING	CH10056	121

Description	Part No.	Page
	CH10770	121
SEAL - VALVE STEM	CH11486	21, 239
SEAL - WATER PUMP	CH10554	129
	CH11941	127
SEAL KIT	KRP1643	65, 239
SEALING RING	CH10838	181
SEAT	CH10715	21
SETSCREW	2314C044	207, 209
	ST29802	133
SHAFT	CH10862	97
	CH11942	127, 129
	CH12391	93
	CV17729	85
SLEEVE	CH10708	23
	CH11311	21
	CH12340	175
	CH12582	21
	CV17765	85
SMALL END BUSH	CV60967	51
SNAP RING	CH10581	35
SOCKET	CH11170	219
	CH11171	219
SPACER	CH10108	71
	CH10662	17
	CH10776	147
	CH10792	65

Description	Part No.	Page
	CH10867	225
	CH11035	133
	CH11555	175
	CH11678	211
	CH11896	145, 153
	CH11983	107
	CH12379	93
	CH12383	93
	CH12891	139
	OE49437	133
SPEED SENSOR	CH12003	225
	CH12004	227
SPRING	CH10737	97
	CH10819	113
STARTER MOTOR	CH11441	77
STARTER RING GEAR	CH11551	73
STRAINER	CH11634	127
	CH12680	129
STRAP	CH11499	203, 211
STUB	CH10623	43
	CH10624	45
	CH10876	39
STUD	CH10578	71
	CH10775	175
	CH10952	63
	CH10953	59
	CH12764	35

Parts Index

Description	Part No.	Page
SUMP	CH11569	95
SUPPORT	CH10576	71
	CH10577	71
	CH11577	159
SUPPORT BRACKET	CH10832	59
	CH10855	95
SWITCH	CV25001	201
TEMPERATURE SENSOR	CH12893	235
	CV18338/5	235
	KRP1687	229
	KRP1688	223
TENSIONER ARM	CH11024	85, 85
	CH12832	87
	T400228	89
TENSIONER PULLEY	CH12872	87, 89
	CV17732	85
THERMOSTAT	CH11620	121
THERMOSTAT HOUSING	CH10765	121
THERMOSTAT KIT	KRP1645	121
THRUST PLATE	CH10614	43, 45
	CH10617	41
	CH10619	39
THRUST WASHER KIT	KRP3206	33
TIMING COVER	CH11848	61
TIMING GEAR CASE	CH11667	59

Description	Part No.	Page
TOOL	CH11169	219
TURBOCHARGER	CH11607	155
	CH11608	157
TURBOCHARGER - EXCHANGE	R/CH11607	155
	R/CH11608	157
U BOLT	CH11666	211
UNC BOLT	2234215	171
	CH11931	71
VALVE	CH10836	181
	CV4178	163
VALVE COLLET	CH10019	21
VALVE GUIDE	CH10724	21
VALVE SEAT INSERT	CH10731	21
	CH10732	21
	T400215	21
	T400216	21
VALVE SPRING INNER	CH11489	21
VALVE SPRING OUTER	CH11487	21
	CH12798	21
VIBRATION MOUNT	CH10272	71
WASHER	0920004	139, 139, 171, 191
	0920007	79
	2131A008	207, 209
	2131A010	81

Description	Part No.	Page
	2131A012	85, 85, 85, 87, 87
	CH10086	181
	CH10099	63, 69, 75, 195, 213
	CH10100	19, 221
	CH10255	19, 19, 19, 35, 59, 75, 75, 75, 81, 107, 145, 147, 153, 173, 181, 187, 187, 189, 231
	CH10277	71, 151, 181, 221, 225, 227
	CH10279	71
	CH10303	69
	CH10541	59, 75, 75, 75, 91, 97, 99, 101, 105, 113, 115, 115, 115, 173, 193, 221, 221, 221, 233
	CH10593	35
	CH10610	39
	CH10615	43, 43, 45, 45, 59, 95, 215
	CH10672	13, 15

Description	Part No.	Page
	CH10711	23, 23
	CH10716	21
	CH11589	73
	CH11604	89, 89
	CH11650	123
	CH11651	123
	CH11676	211
	CH12380	93
	CV17731	85
	CV70605	215, 217, 217
	ST15903	85, 87, 161, 205
	ST15905	133, 141, 143
	ST49891	211
WATER PIPE	CH10769	119
	CH11366	211
	CH11367	211
	CH11617	119
WATER PUMP GEAR	CH11544	127, 129
WATER PUMP KIT	KRP1678	127
	KRP1715	129
WIRING HARNESS	3161C093	139
	CH11985	221
	CH12042	215
WOODRUFF KEY	CH10005	39



1

2



3



4

5

