161182

RUTHZIL TRATOR COMERCIAL DE PEÇAS LTDA 11 97083-6812 ROLANDO

PERKINS

REFERENCE ONLY

RJ70531	RJ70531
1104C-44TA	2006/10/04

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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REFERENCE ONLY

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 help you 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.

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Engine Breakdown

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REFERENCE ONLY

Engine Breakdown

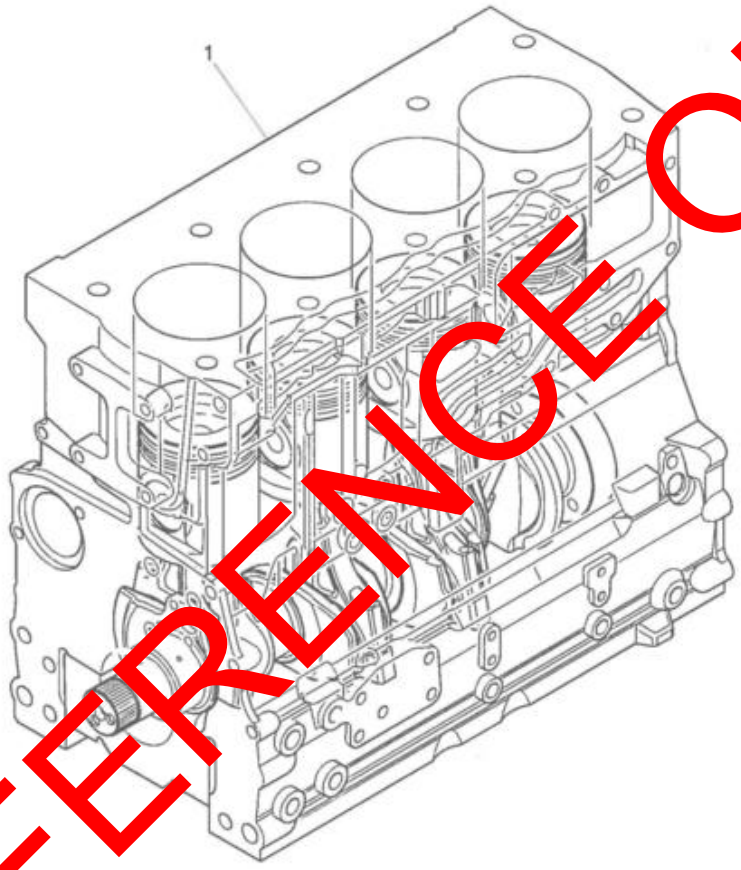
REFERENCE ONLY

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 Illustration

REFERENCE ONLY

ACE40004



REFERENCE ONLY

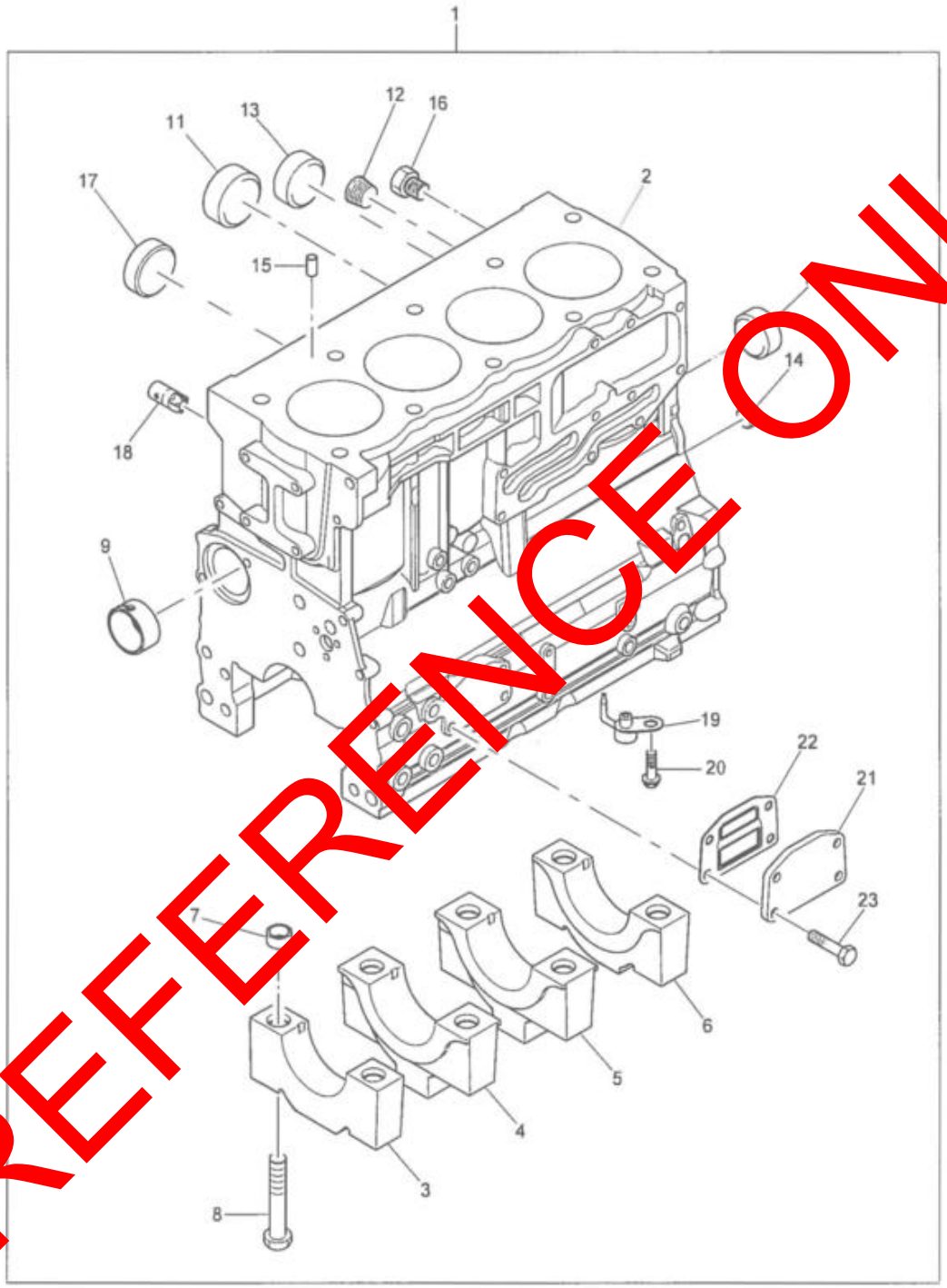
Short Engine	Plate A
	ACE40004

Item	Part No.	References	Qty.	Description	Notes
1	RG40004		1	SHORT ENGINE	
2	├─ZZ50311		1	CYLINDER BLOCK KIT	
3	├─ZZ90222		1	CRANKSHAFT KIT	
4	├─	Ⓢ	4	CONROD KIT	
5	├─4115P015	Ⓢ	4	PISTON AND RING KIT	
6	├─2418F704		1	SEAL - REOS HOUSING	
7	└─3211C002		10	METRIC BOLT	
Service Options					
3	ZZ90222P		1	CRANKSHAFT KIT - EXCHANGE	
4	4115C311		4	CON ROD ASSEMBLY	GRADE F
4	4115C312		4	CON ROD ASSEMBLY	GRADE G
4	4115C313		4	CON ROD ASSEMBLY	GRADE H
4	4115C314		4	CON ROD ASSEMBLY	GRADE J
4	4115C315		4	CON ROD ASSEMBLY	GRADE K
4	4115C316		4	CON ROD ASSEMBLY	GRADE L
5	4115P016	(+)0.50MM	4	PISTON AND RING KIT	(A)
5	4115P017	(+)1.00MM	4	PISTON AND RING KIT	(A)

Footnotes	
(A)	SERVICE BY COMPLETE ENGINE

REFERENCE ONLY

ACHR0047



REFERENCE ONLY

Cylinder Block & Liners	Plate A
	ACHR0047

Item	Part No.	References	Qty.	Description	Notes
1	ZZ50311	a.	1	CYLINDER BLOCK ASSEMBLY	
2	├	ZZ50311	1	CYLINDER BLOCK	
3	├	ZZ50311	1	BEARING CAP	
4	├	ZZ50311	2	BEARING CAP	
5	├	ZZ50311	1	BEARING CAP	
6	├	ZZ50311	1	BEARING CAP	
7	├33142111		10	THIMBLE	
8	├32166329		10	SCREW	
9	├3112D071		1	CAMSHAFT BUSH	
10	├3241A012		1	PLUG	
11	├3241A011		2	PLUG	
12	├0650588		1	PLUG	
13	├0650710		1	PLUG	
14	├3212P008		1	PLUG	
15	├3244A009		2	DOWEL	
16	├32141316		2	PLUG	
17	├2485A108		1	PLUG	
18	├3212V006		1	PLUG	
19	├2113A003	a.		PISTON COOLING JET	
20	├2314F001		4	SCREW	
21	├3623A009		1	BLANKING PLATE	
22	├3688A039		1	GASKET - OIL FILTER HEAD	
23	└2314H033			SCREW	

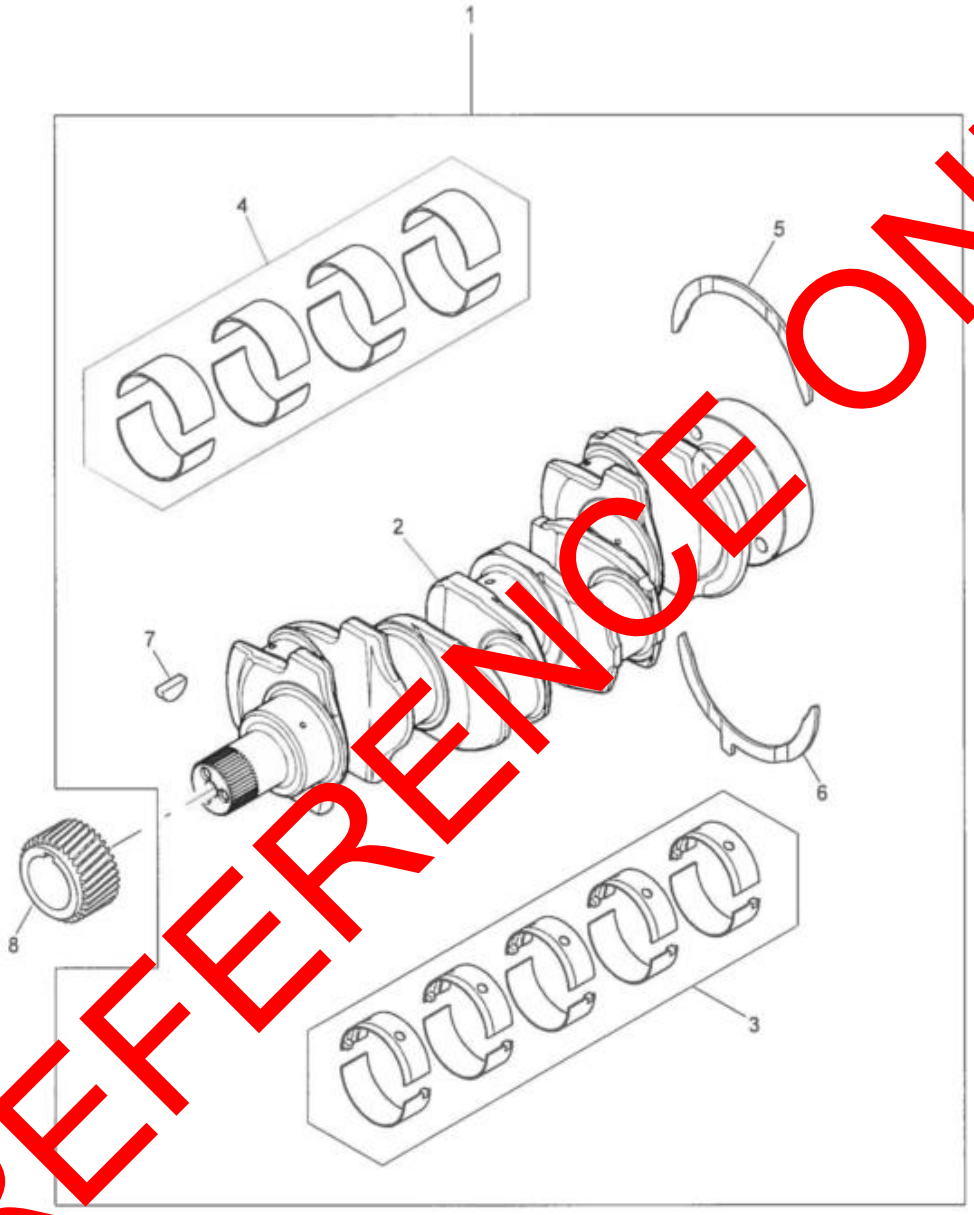
History

a.

1	ZZ50311	1	CYLINDER BLOCK ASSEMBLY
19	└2113A001	4	PISTON COOLING JET

REFERENCE ONLY

Crankshaft, Main & Big End Bearings	Plate A
PPL026421	ACHR0047



REFERENCE ONLY

Crankshaft, Main & Big End Bearings	Plate A
PPL026421	ACHR0047

Item	Part No.	References	Qty.	Description	Notes
1	ZZ90222	a.	1	CRANKSHAFT KIT	
2	├	ZZ90222	1	CRANKSHAFT	
3	├U5MB0018	S	1	MAIN BEARING KIT	
4	├U5ME0026	a.	1	BIG END BEARING KIT	
5	├31137551	S	2	THRUST WASHER	
6	├31137561	S	2	THRUST WASHER	
7	└0500012		1	WOODRUFF KEY	
8	3117C221		1	CRANKSHAFT GEAR	
Service Options					
1	ZZ90222P		1	CRANKSHAFT KIT - EXCHANGE	
3	U5MB0018A	(+) 0.010"	1	MAIN BEARING KIT - O/S	
3	U5MB0018B	(+)0.020"	1	MAIN BEARING KIT - O/S	
3	U5MB0018C	(+) 0.030"	1	MAIN BEARING KIT - O/S	
5	31137312	(+)0.007"	2	THRUST WASHER	
6	31137322	(+)0.007"	2	THRUST WASHER	

History					
a.					
1	ZZ90222		1	CRANKSHAFT KIT	
4	└U5ME0013	S	1	BIG END BEARING KIT	

REFERENCE ONLY

ACHR0047



REFERENCE ONLY

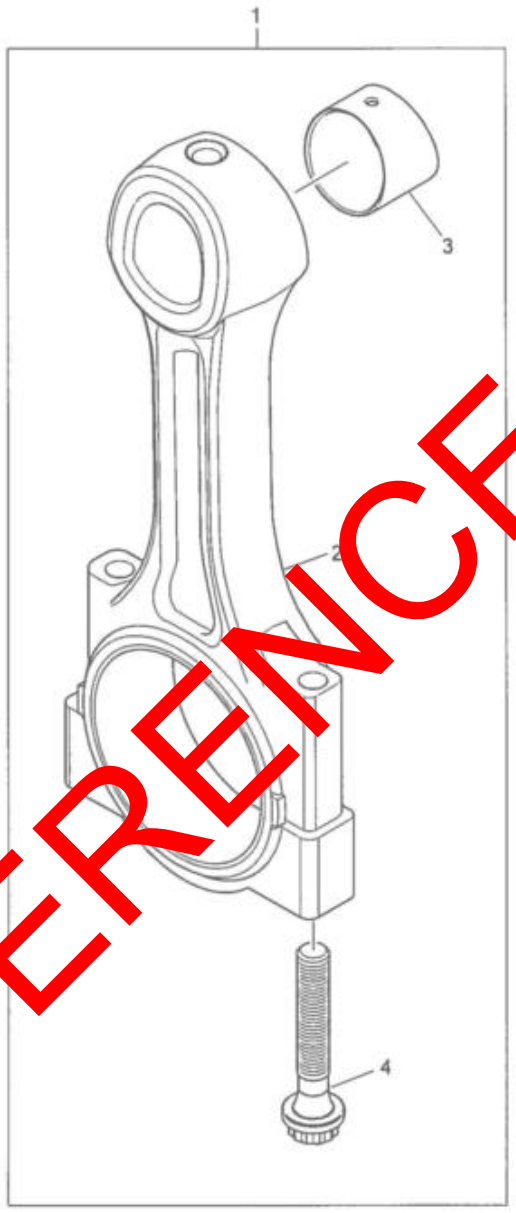
Pistons & Rings	Plate A
	ACHR0047

Item	Part No.	References	Qty.	Description	Notes
1	4115P015	Ⓢ	4	PISTON AND RING KIT	
2	├	⇨ 4115P015	1	PISTON	
3	├	⇨ 4115P015	1	PISTON PIN	
4	├2721332		2	CIRCLIP	
5	└UPRK0002		1	PISTON RING KIT	
Service Options					
1	4115P016	╪ (+)0.50MM	4	PISTON AND RING KIT	(A)
1	4115P017	╪ (+)1.00MM	4	PISTON AND RING KIT	(A)

Footnotes	
(A)	SERVICE BY COMPLETE ENGINE

REFERENCE ONLY

ACHR0047



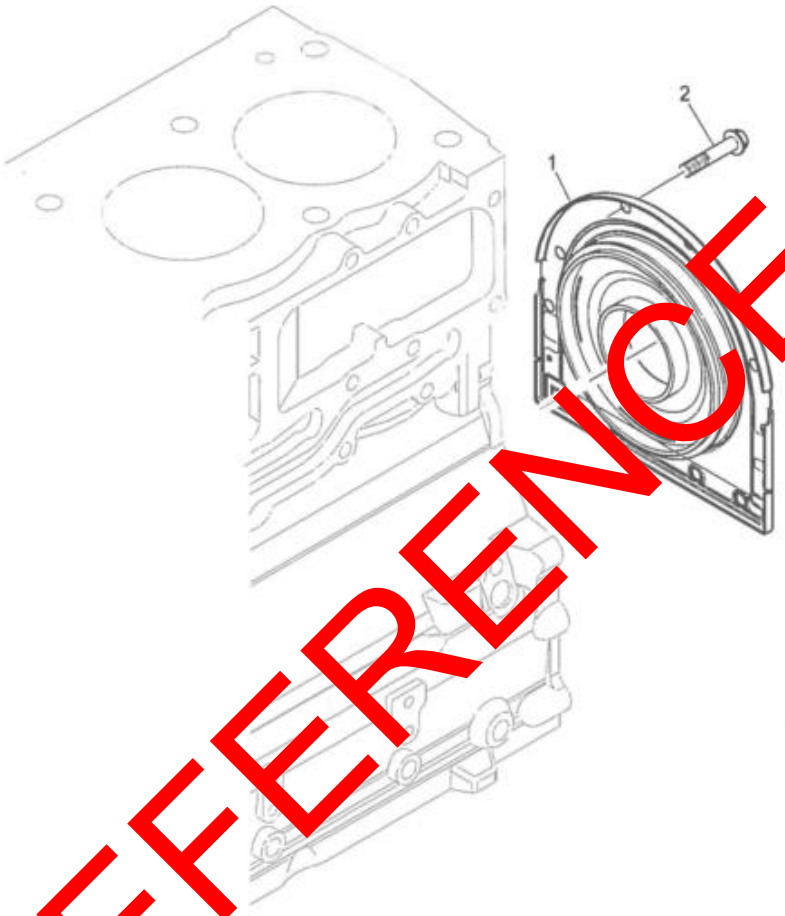
REFERENCE ONLY

Connecting Rods	Plate A
	ACHR0047

Item	Part No.	References	Qty.	Description	Notes
1		Ⓢ	4	CONROD KIT	
2	├	⇨ SERVICE OPTION	1	CON ROD	
3	├3112A005		1	SMALL END BUSH	
4	└3212V003		2	CON ROD BOLT	
Service Options					
1	4115C311		4	CON ROD ASSEMBLY	GRADE F
1	4115C312		4	CON ROD ASSEMBLY	GRADE G
1	4115C313		4	CON ROD ASSEMBLY	GRADE H
1	4115C314		4	CON ROD ASSEMBLY	GRADE J
1	4115C315		4	CON ROD ASSEMBLY	GRADE K
1	4115C316		4	CON ROD ASSEMBLY	GRADE L

REFERENCE ONLY

Rear End Oil Seal	Plate A
	ACHR0047



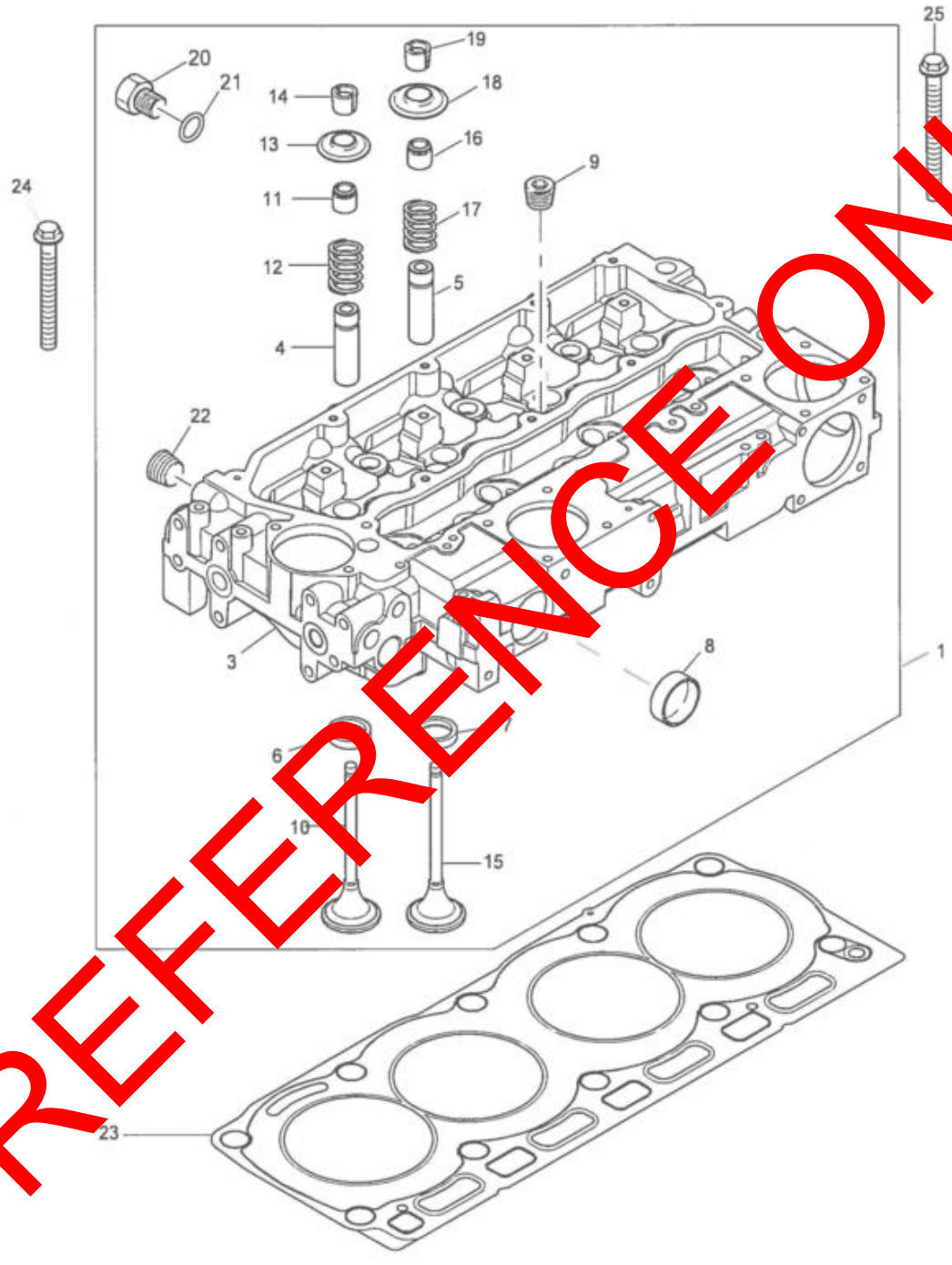
REFERENCE ONLY

Rear End Oil Seal	Plate A
	ACHR0047

Item	Part No.	References	Qty.	Description	Notes
1	2418F704		1	SEAL - REOS HOUSING	
2	3211C002		10	METRIC BOLT	

REFERENCE ONLY

Cylinder Head Assembly	Plate A
	ACHR0047



REFERENCE ONLY

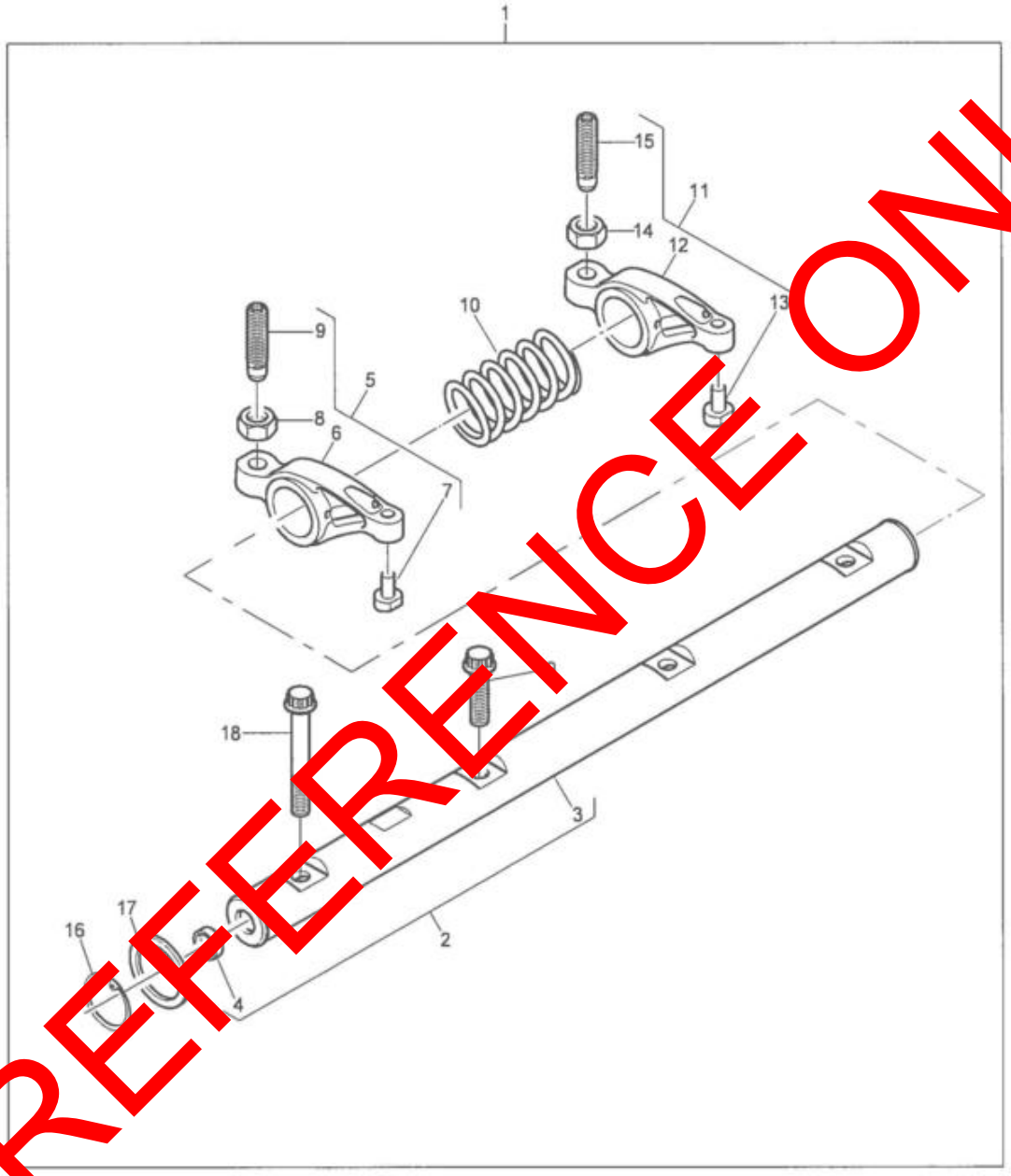
Cylinder Head Assembly	Plate A
	ACHR0047

Item	Part No.	References	Qty.	Description	Notes
1	ZZ80268		1	CYLINDER HEAD KIT	
2	┣	✏ ZZ80269	1	CYLINDER HEAD ASSEMBLY	
3	┃ ┣	✏ ZZ80268	1	CYLINDER HEAD	
4	┃ ┣ 3313E021		4	VALVE GUIDE	
5	┃ ┣ 3313E021		4	VALVE GUIDE	
6	┃ ┣ 3314A151		4	VALVE SEAT INSERT	
7	┃ ┣ 3314A161		4	VALVE SEAT INSERT	
8	┃ ┣ 32416117		2	PLUG	
9	┃ ┗ 0650588		4	PLUG	
10	┣ 3142H071		4	INTAKE VALVE	
11	┣ 2418M519		4	VALVE STEM SEAL	(A)
12	┣ 3174A016		4	VALVE SPRING	
13	┣ 3342A011		4	CAP	
14	┣ 3142W004		8	VALVE COLLET	
15	┣ 3142A151		4	EXHAUST VALVE	
16	┣ 2418M517		4	SEAL - VALVE STEM	(B)
17	┣ 3174A016		4	VALVE SPRING	
18	┣ 3342A011		4	CAP	
19	┣ 3142W004		8	VALVE COLLET	
20	┣ 3278A006		1	PLUG	
21	┣ 2415H003		1	SEAL - SENSOR	
22	┗ 2431154		1	PLUG	
23	3681E051			GASKET - CYLINDER HEAD	
24	3218A011		7	CYLINDER HEAD BOLT	
25	3218A012		3	CYLINDER HEAD BOLT	

Footnotes	
(A)	GREEN
(B)	BROWN

REFERENCE ONLY

Rocker Shaft Assembly	Plate A
	ACHR0047



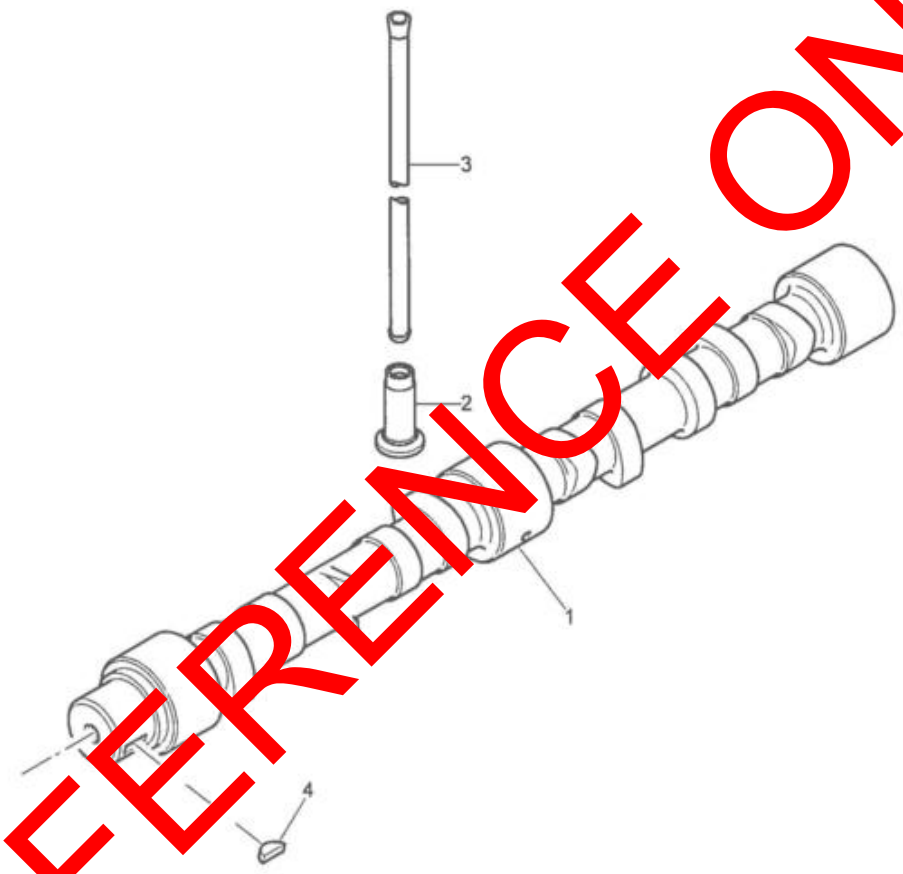
REFERENCE ONLY

Rocker Shaft Assembly	Plate A
	ACHR0047

Item	Part No.	References	Qty.	Description	Notes
1	4115R612		1	ROCKER SHAFT ASSEMBLY	
2	4115R703		1	ROCKER SHAFT ASSY - MINOR	
3		⇨ 4115R703	1	ROCKER ARM SHAFT	
4	2485A104		2	PLUG	
5	4115R314		4	ROCKER ARM ASSEMBLY	
6		⇨ 4115R314	1	ROCKER ARM	
7		⇨ 4115R314	1	PAD	
8	0576052		1	NUT	
9	32114145		1	SCREW	
10	3174A015		3	ROCKER SHAFT SPRING	
11	4115R315		4	ROCKER ARM ASSEMBLY	
12		⇨ 4115R315	1	ROCKER ARM	
13		⇨ 4115R315	1	PAD	
14	0576052		1	NUT	
15	32114145		1	SCREW	
16	2722A022		2	CIRCLIP	
17	2134A502		2	WASHER	
18	2316A901		1	SCREW	
19	2316A902		2	SCREW	

REFERENCE ONLY

ACHR0047



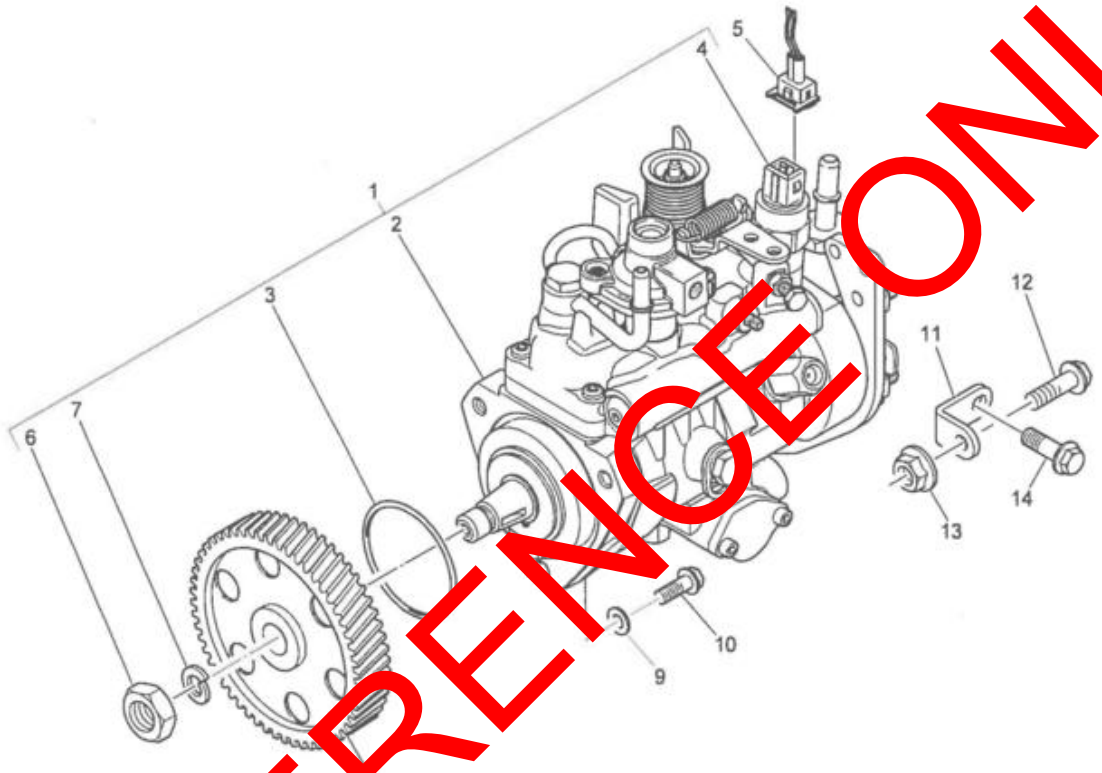
REFERENCE ONLY

ACHR0047

Item	Part No.	References	Qty.	Description	Notes
1	3141D222		1	CAMSHAFT	
2	3142U031		8	TAPPET	
3	31434307		8	PUSHROD	
4	0500012		1	WOODRUFF KEY	

REFERENCE ONLY

Fuel Injection Pump	Plate A
	AFHR4291



REFERENCE ONLY

Fuel Injection Pump	Plate A
	AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	2644H042	a. b.	1	FUEL INJECTION PUMP	
2		2644H042	1	FUEL INJECTION PUMP	
3	26420318		1	SEAL - O RING	
4	26420469		1	SOLENOID	
5	3161C012		1	ADAPTOR	
6	2318A108		1	NUT	
7	K134AF01		1	WASHER	
8	3117L261		1	FUEL INJECTION PUMP GEAR	
9	2411D008		3	WASHER	
10	2314H004		3	SCREW	
11	3641A007		1	BRACKET	
12	2314H003		1	SCREW	
13	2318A603		1	NUT	
14	2314J002		1	SCREW	

History

a.

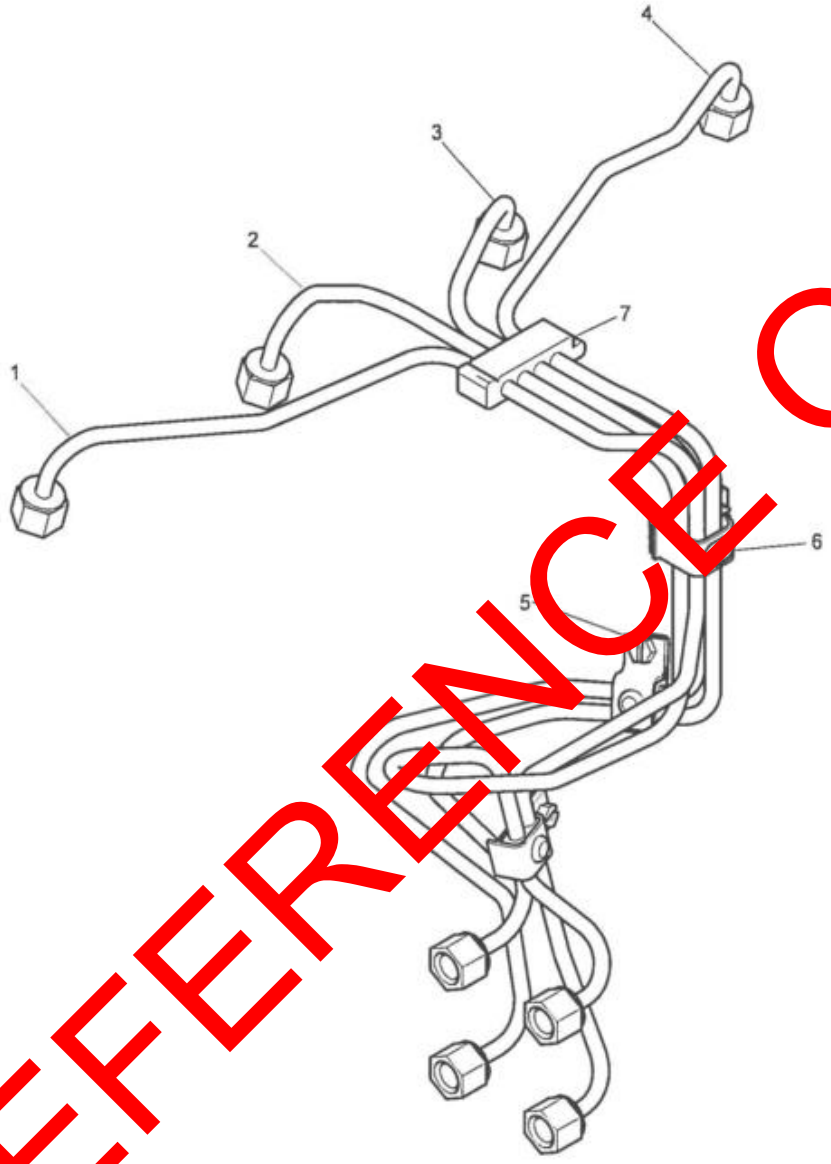
1	2644H016	1	FUEL INJECTION PUMP

b.

1	2644H009	1	FUEL INJECTION PUMP

REFERENCE ONLY

High Pressure Fuel Pipes	Plate A
	AFHR4291



REFERENCE ONLY

High Pressure Fuel Pipes	Plate A
	AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	3525A101	a.	1	PIPE - FUEL INJ NO 1 CYL	
2	3525A102	a.	1	PIPE - FUEL INJ NO 2 CYL	
3	3525A103	a.	1	PIPE - FUEL INJ NO 3 CYL	
4	3525A104	a.	1	PIPE - FUEL INJ NO 4 CYL	
5	2481Y011	a.	1	CLIP	
6	2481Y012		1	CLIP	
7	2646E019		1	CLIP	

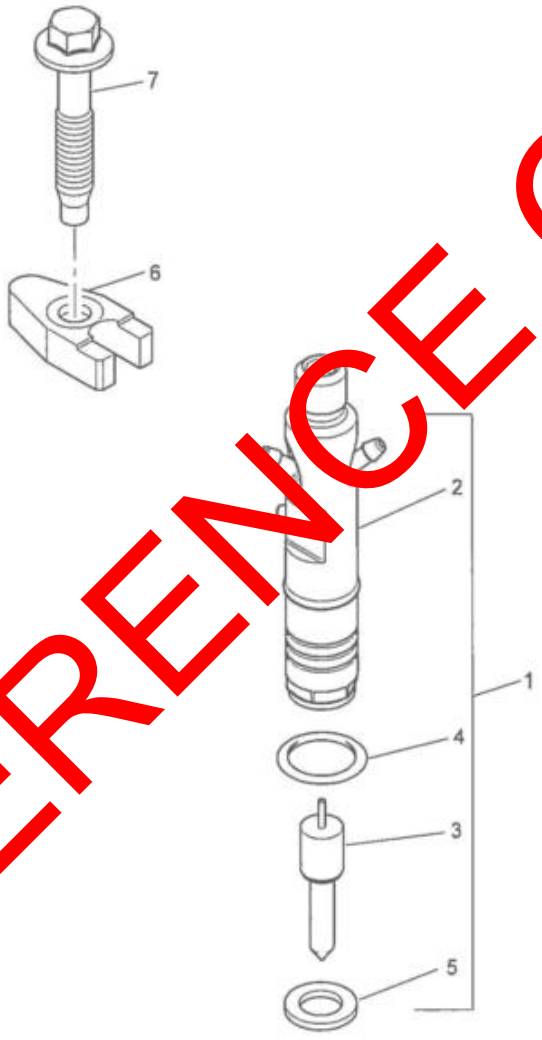
History

a.

1	3525A061	1	PIPE - FUEL INJ NO [illegible]
2	3525A062	1	PIPE - FUEL INJ NO 2 [illegible]
3	3525A063	1	PIPE - FUE[illegible] INJ NO [illegible] CYL
4	3525A064	1	PIPE - FU[illegible] INJ NO 4 [illegible] YL
5	2646E017	1	CLIP

REFERENCE ONLY

AFHR4291



REFERENCE ONLY

AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	2645K012		4	INJECTOR	
2	├	✏ 2645K012	1	INJECTOR NOZZLE HOLDER	
3	├2645K612		1	INJECTOR NOZZLE	
4	├26460064		1	SEAL - INJECTOR	
5	└L311FF02		1	INJECTOR WASHER	
6	3751A241	[a] a. [b] b.	4	INJECTOR CLAMP	
7	2314W009	[b] b.	4	SCREW	

History

a.

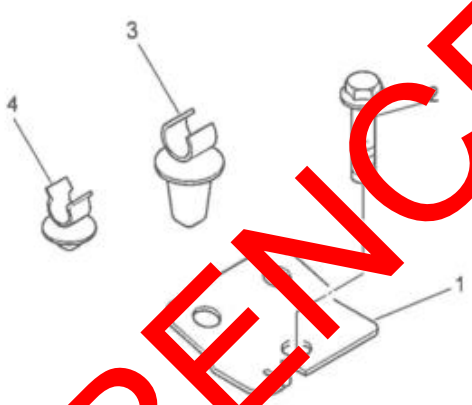
6	3751A231		4	INJECTOR CLAMP

b.

6	3274A004		4	INJECTOR CLAMP
7	2314W008		4	SCREW

REFERENCE ONLY

AFHR4291



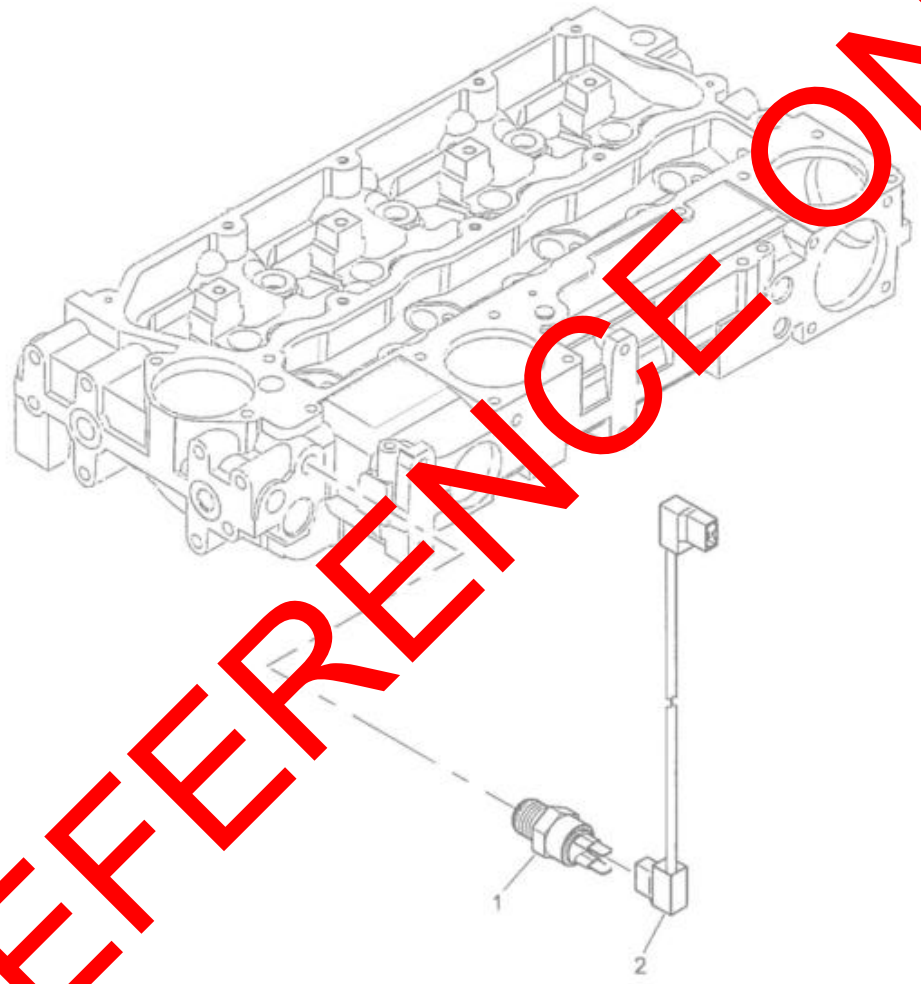
REFERENCE ONLY

Throttle & Stop Controls	Plate A
	AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	3653A017	a.	1	BRACKET	
2	2314H002		1	SCREW	
3	2481D558		1	CLIP	
4	2481D456	a.	1	CLIP	
History					
a.					
1	3651A016		1	SUPPORT BRACKET	
4	2481D556		1	CLIP	

REFERENCE ONLY

Pick-Up Sensor	Plate A
	AFHR4291



REFERENCE ONLY

Pick-Up Sensor	Plate A
	AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	2848A127	b.	1	WATER TEMPERATURE SENSOR	
2	3161C017		1	CABLE	

History

a.

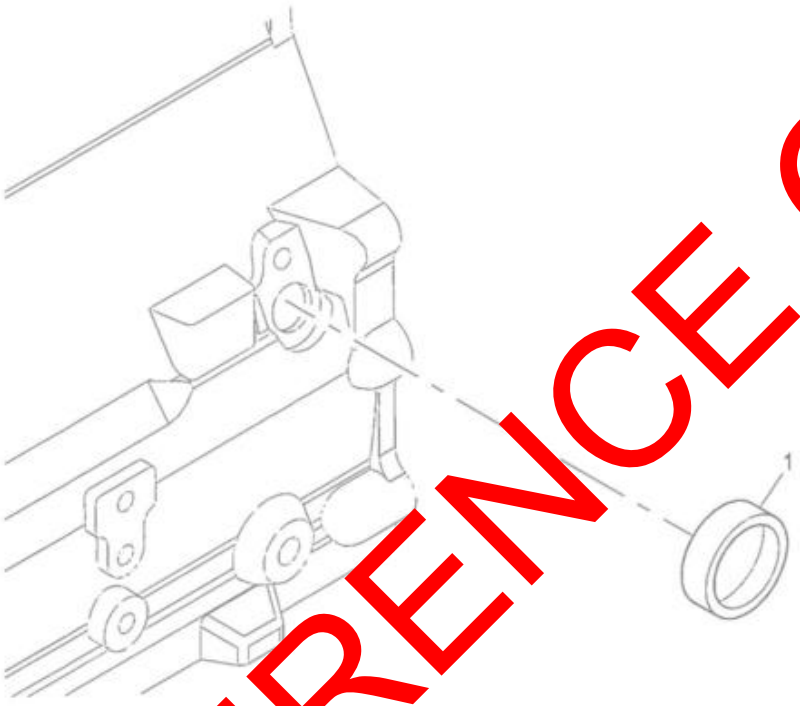
3278A005	1	PLUG	
2415H001	1	SEAL - O RING	
3278A006	1	PLUG	
2415H003	1	SEAL - SENSOR	

b.

1	2848A123	1	WATER TEMPERAT

REFERENCE ONLY

Pick-Up Sensor	Plate B
	AFHR4291



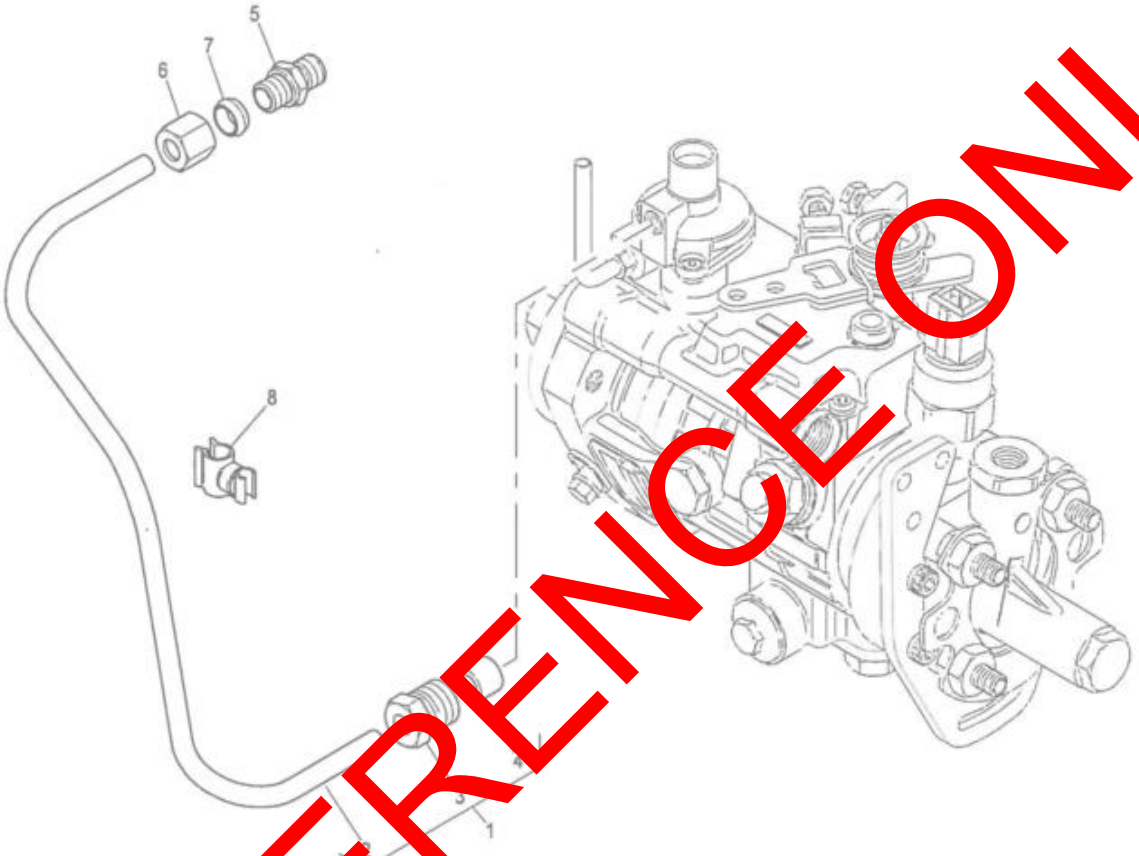
REFERENCE ONLY

Pick-Up Sensor	Plate B
	AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	2485A109		1	PLUG	

REFERENCE ONLY

Boost Control Pipe	Plate A
	AFHR4291



REFERENCE ONLY

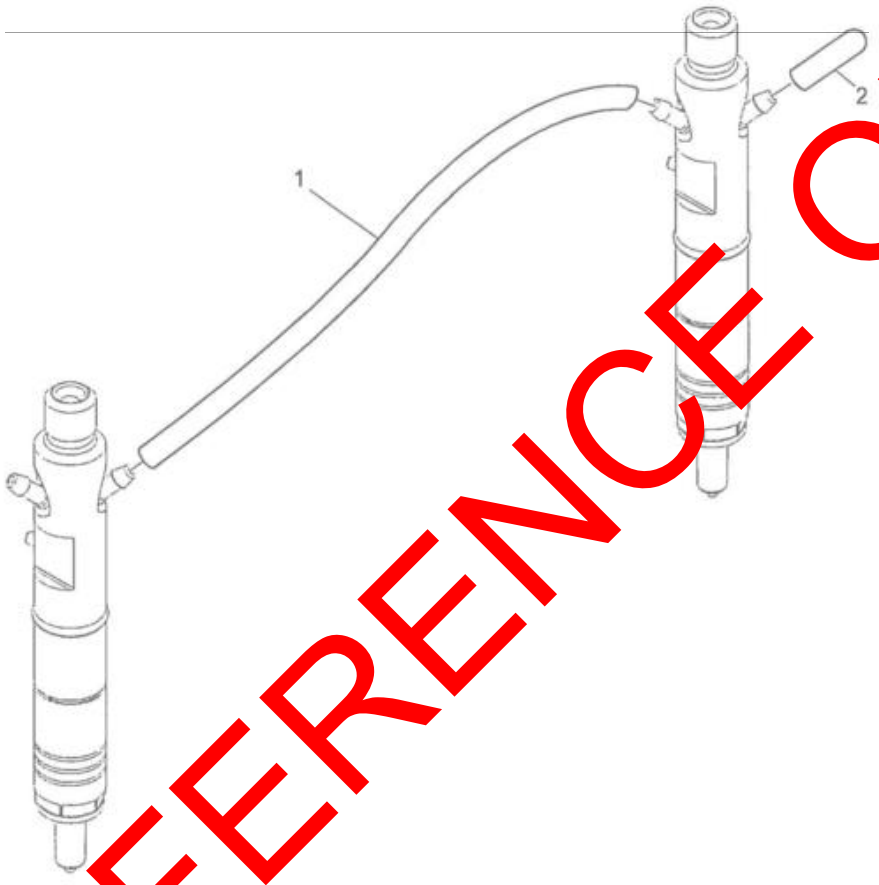
Boost Control Pipe	Plate A
	AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	4121A063	a.	1	PIPE - BOOST	
2	├	4121A063	1	PIPE - BOOST	
3	├3353D004		1	UNION NUT	
4	└33811112		1	OLIVE	
5	0206002		1	UNION	
6	0576111		1	NUT	
7	0566002		1	OLIVE	
8	K138AF02		1	CLIP	

History					
a.					
1	4121A058		1	PIPE - BOOST	

REFERENCE ONLY

Fuel Leak-Off Pipe	Plate A
	AFHR4291



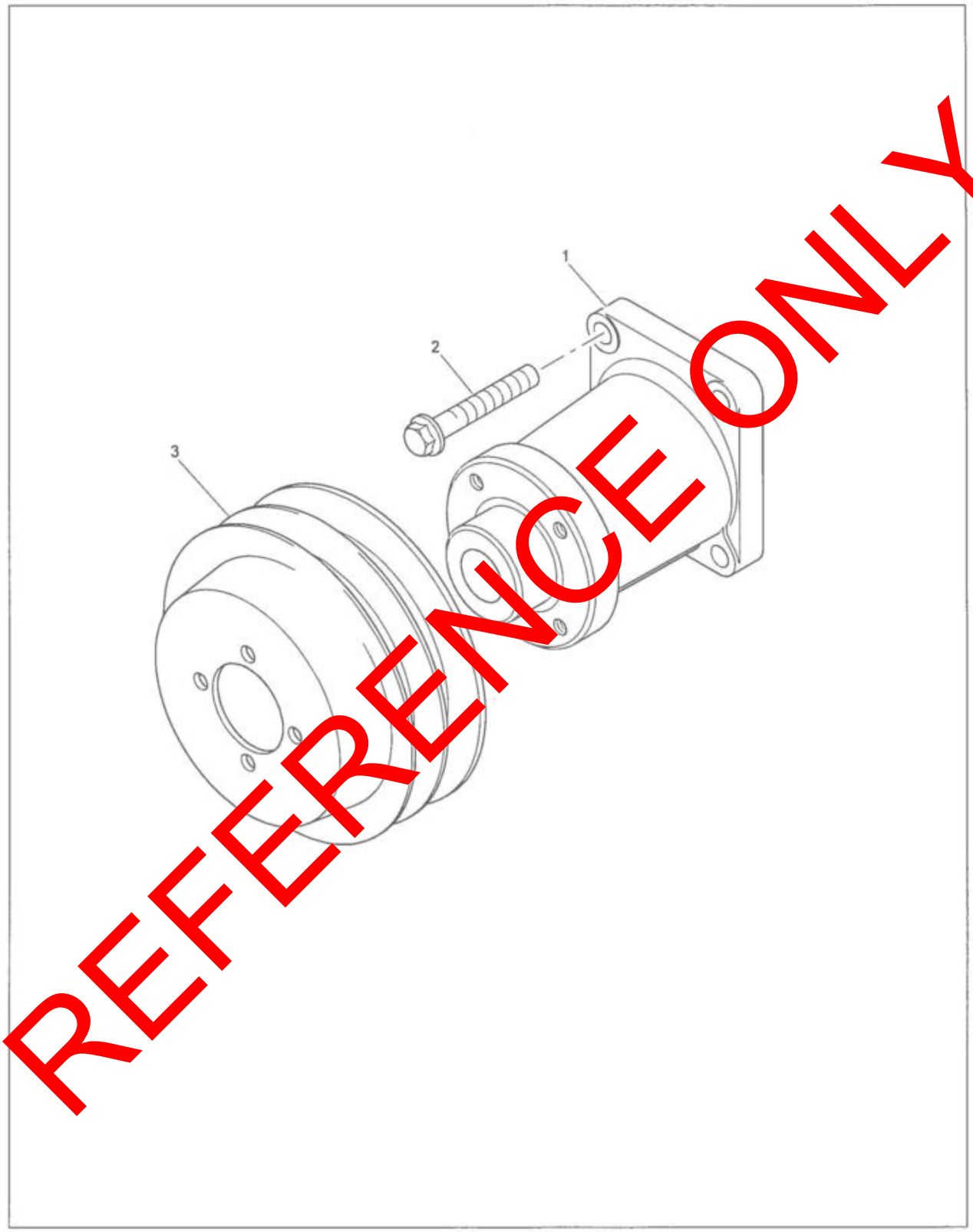
REFERENCE ONLY

Fuel Leak-Off Pipe	Plate A
	AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	2646F501		3	HOSE	
2	2646E501		1	CAP	

REFERENCE ONLY

Fan Drive	Plate A
	FBHR0895



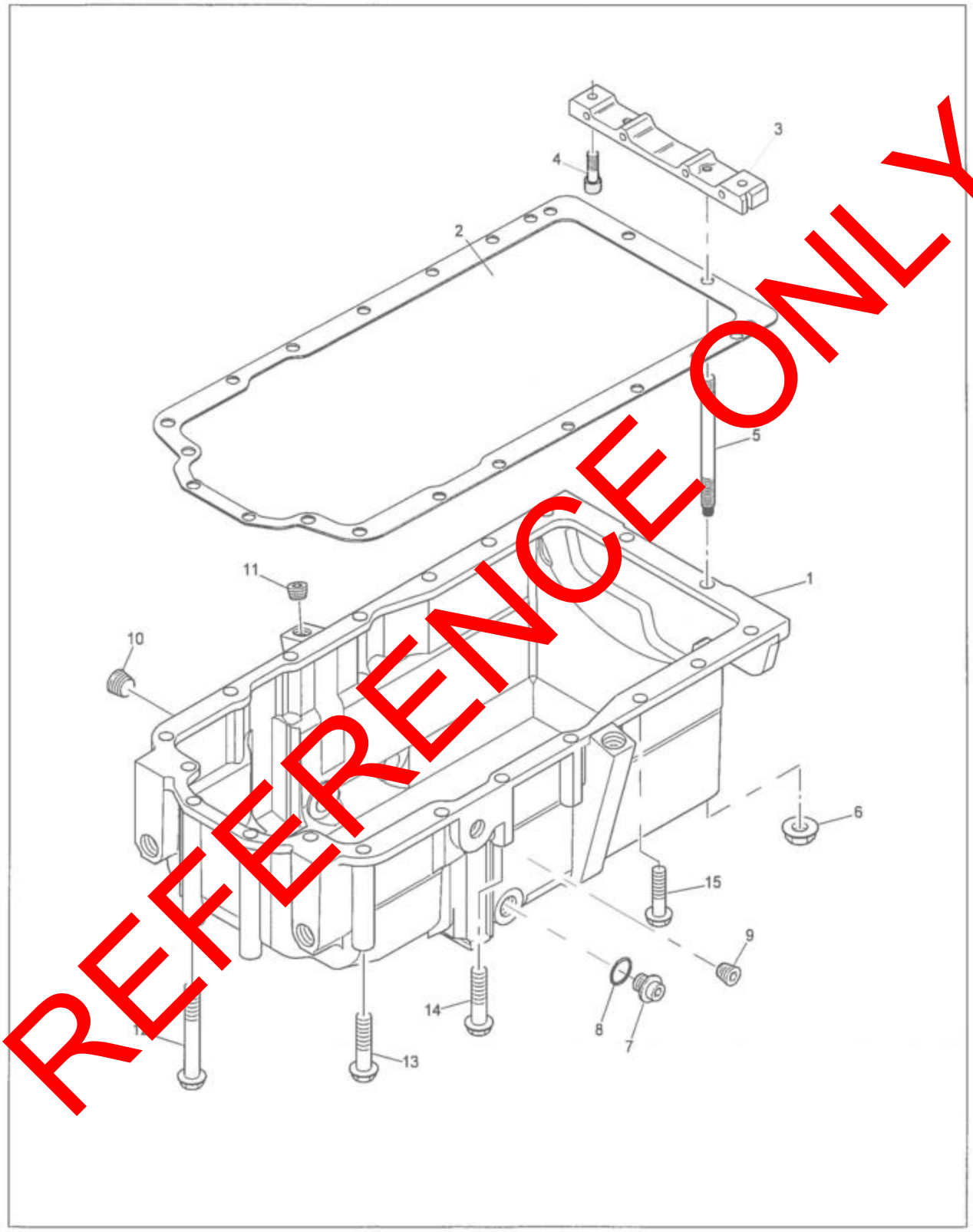
REFERENCE ONLY

Fan Drive	Plate A
	FBHR0895

Item	Part No.	References	Qty.	Description	Notes
1	4113K005		1	FAN DRIVE HOUSING	
2	2314J005		4	SCREW	
3	3115C113		1	FAN DRIVE PULLEY	

REFERENCE ONLY

Sump	Plate A
	GBHR2758



REFERENCE ONLY

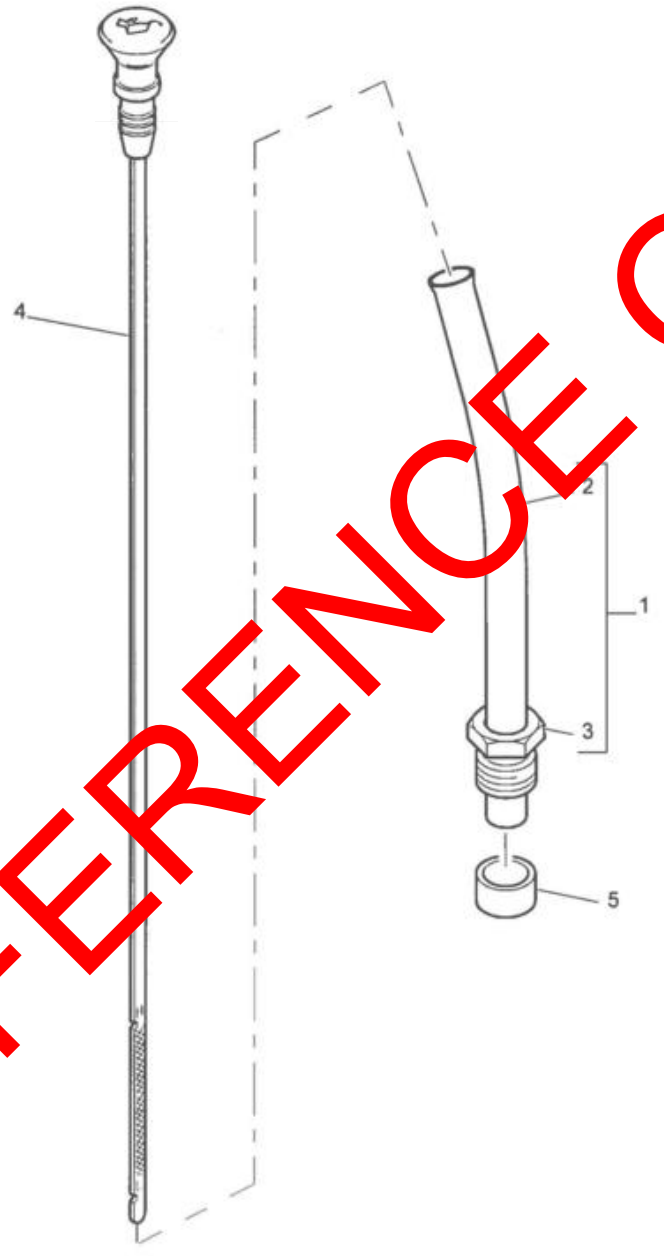
Sump	Plate A
	GBHR2758

Item	Part No.	References	Qty.	Description	Notes
1	3717E241		1	SUMP	
2	3681K037		1	GASKET - SUMP	
3	3627P041		1	BRIDGE PIECE	
4	2311D039		2	SCREW	
5	3211P013		2	STUD	
6	2318A603		2	NUT	
7	32186405		2	PLUG	
8	2415715		2	SEAL - O RING	
9	2431154		1	PLUG	
10	2431154		1	PLUG	
11	2431A016		1	PLUG	
12	2314H023		2	SCREW	
13	2314H759	a.	4	SCREW	
14	2314H015		4	SCREW	
15	2314H003		8	SCREW	

History					
a.					
13	2314H020		4	SCREW	

REFERENCE ONLY

Dipstick & Filler Tube	Plate A
	GBHR2758



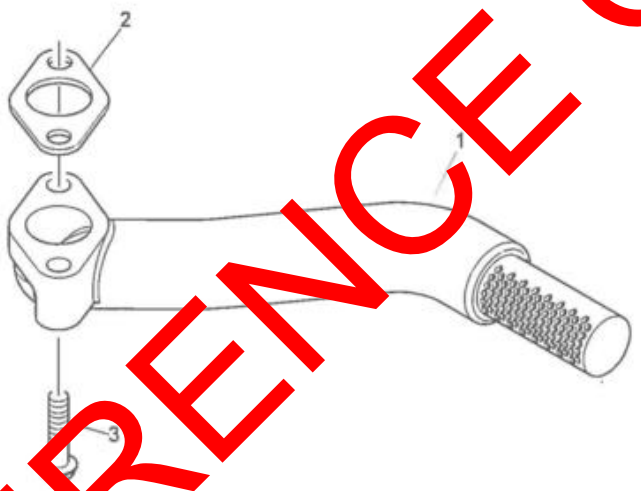
REFERENCE ONLY

Dipstick & Filler Tube	Plate A
	GBHR2758

Item	Part No.	References	Qty.	Description	Notes
1	3577A125		1	TUBE ASSEMBLY	
2	├	⇨ 3577A125	1	TUBE	
3	└3353D005	⇨ 3577A125	1	NUT	
4	3178C088		1	DIPSTICK	
5	33812116		1	OLIVE	

REFERENCE ONLY

Oil Strainer	Plate A
	GBHR2758



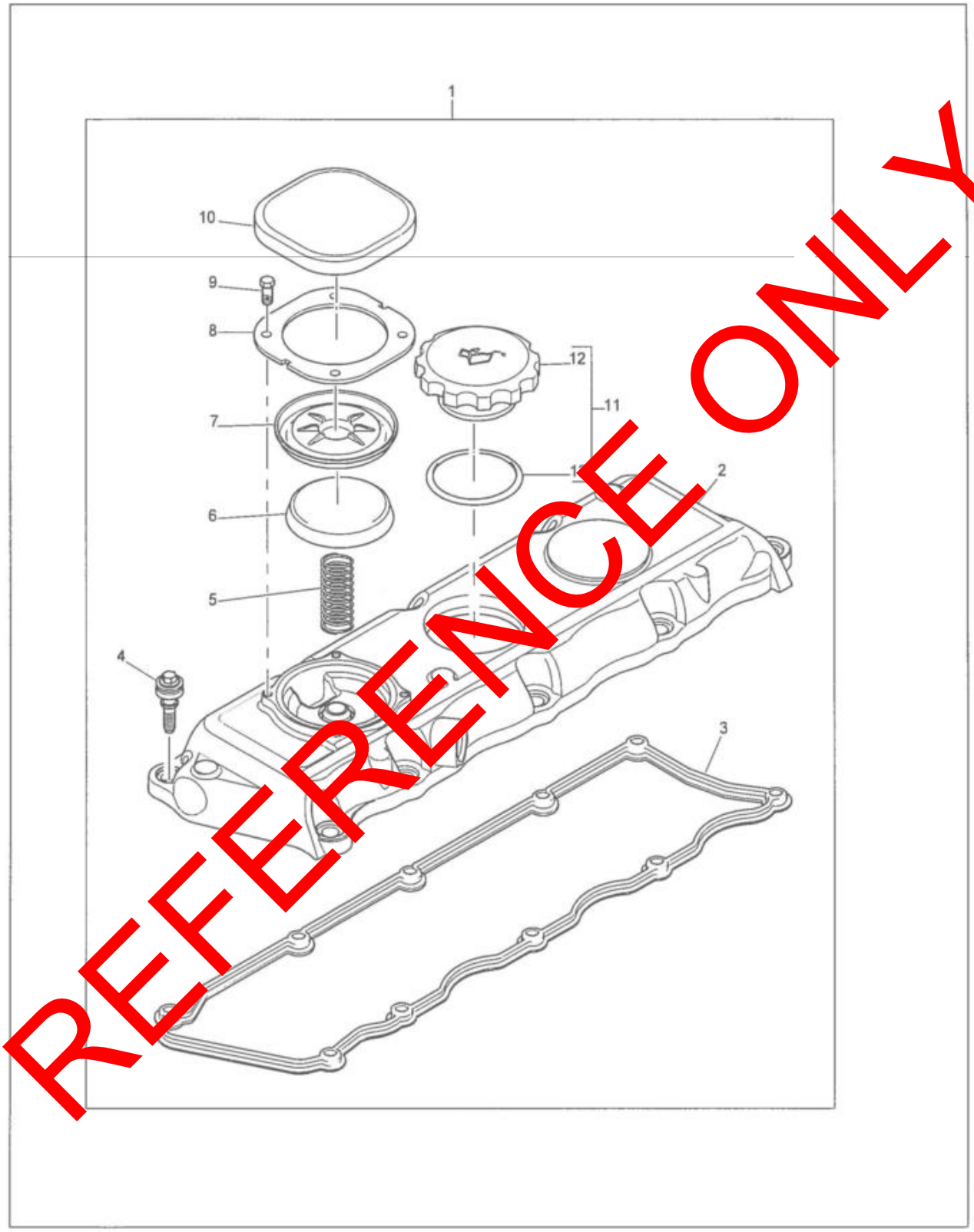
REFERENCE ONLY

Oil Strainer	Plate A
	GBHR2758

Item	Part No.	References	Qty.	Description	Notes
1	3765A101		1	OIL SUCTION STRAINER	
2	36832137		1	GASKET	
3	2314H006		2	SCREW	

REFERENCE ONLY

Cylinder Head Cover	Plate A
	HBHR2744



REFERENCE ONLY

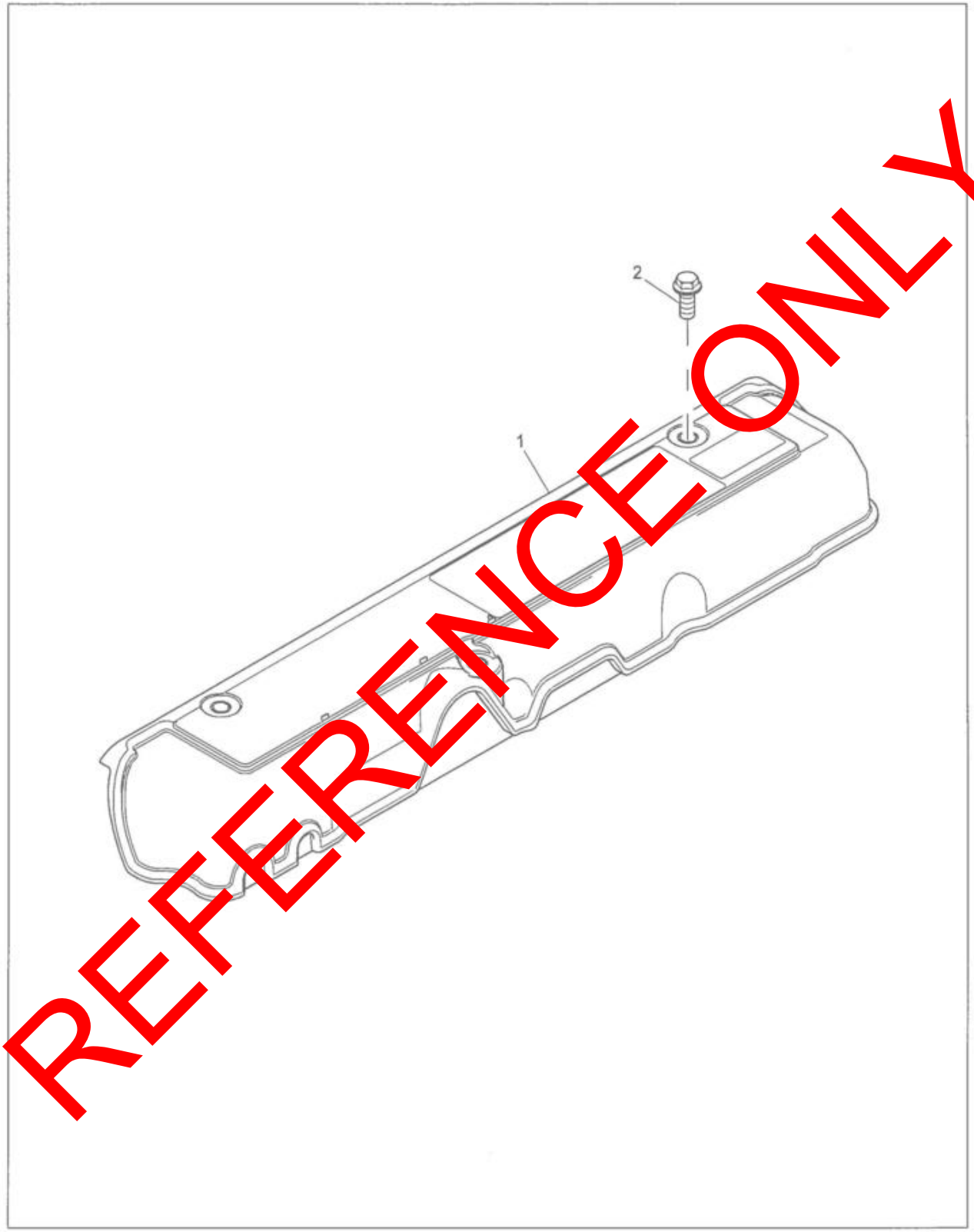
Cylinder Head Cover	Plate A
	HBHR2744

Item	Part No.	References	Qty.	Description	Notes
1	4142X312	a.	1	CYL HEAD COVER ASSY	
2	├	4142X312	1	CYLINDER HEAD COVER	
3	├3681A055		1	GASKET - CYL. HEAD COVER	
4	├2161A011		10	SCREW	
5	├3174A017		1	SPRING	
6	├3788A002		1	CAP	
7	├3789A001		1	DIAPHRAGM	
8	├3615A009		1	COVER PLATE	
9	├2151A001		4	SCREW	
10	├3788A003		1	CAP	
11	└4142X099		1	OIL FILLER CAP	
12	├	4142X099	1	OIL FILLER CAP	
13	└2415A131		1	SEAL - O-RING	

History			
a.			
1	4142X292	1	CYL HEAD COVER ASSY

REFERENCE ONLY

Cylinder Head Cover	Plate B
	HBHR2744



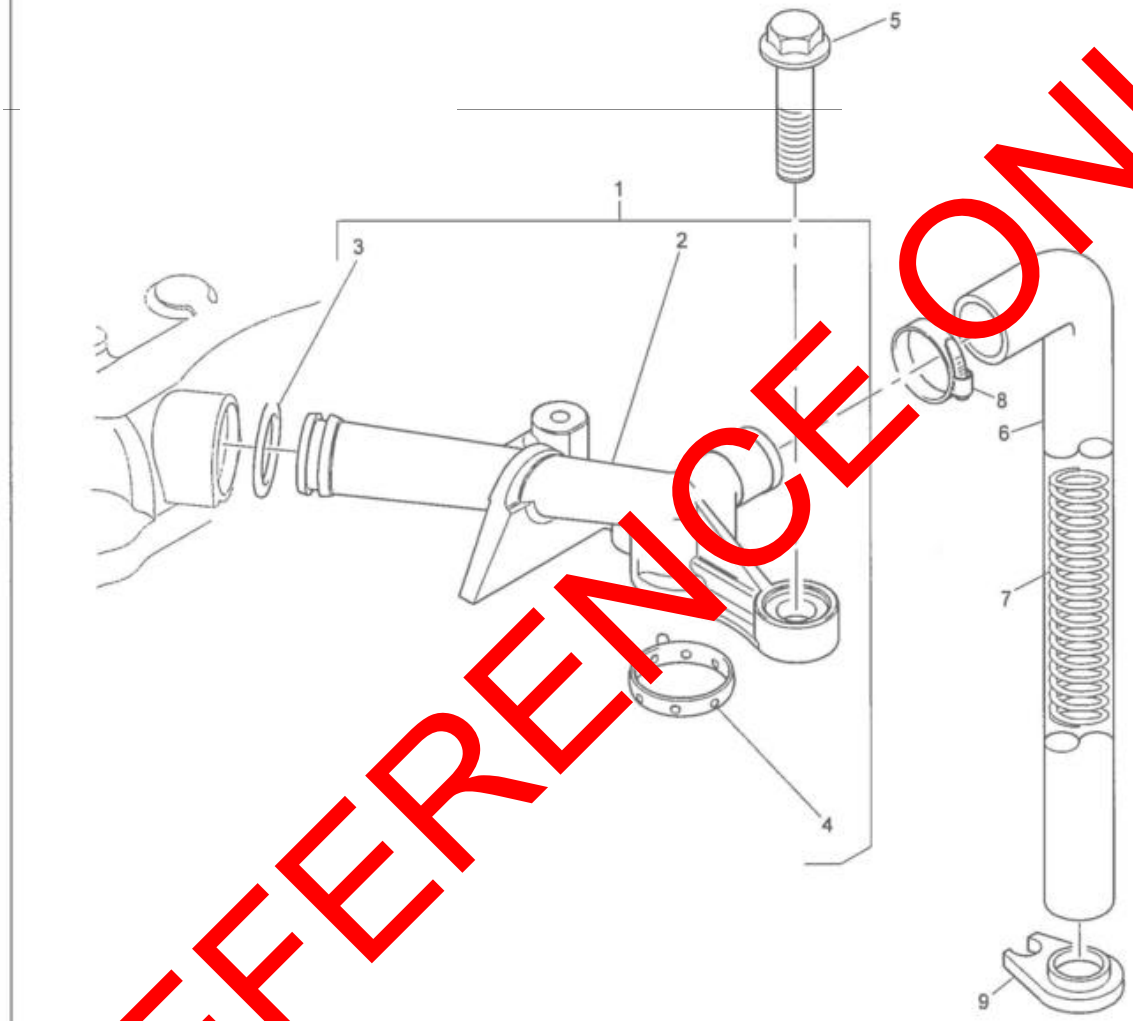
REFERENCE ONLY

Cylinder Head Cover	Plate B
	HBIIR2744

Item	Part No.	References	Qty.	Description	Notes
1	3788N003		1	COVER	
2	2314F003		3	SCREW	

REFERENCE ONLY

Breather	Plate A
	HBHR2744



REFERENCE ONLY

Breather	Plate A
	HBHR2744

Item	Part No.	References	Qty.	Description	Notes
1	4134K022	a.	1	PIPE - BREATHER	
2	├	4134K022	1	BREATHER PIPE	
3	├2415A068		1	SEAL - O RING	
4	└2415H701	a.	1	SEAL - O RING	
5	2314F005		2	SCREW	
6	33872632		1	HOSE	
7	3175P003		1	SPRING	
8	2481877		1	HOSE CLIP	
9	36241123		1	SUPPORT BRACKET	

History

a.

1	4134K015	1	PIPE - BREATHER
4	├3688A038	1	GASKET - BREATHER
	└2161A011	2	SCREW

REFERENCE ONLY

Blanking Plates	Plate A
	HBHR2744



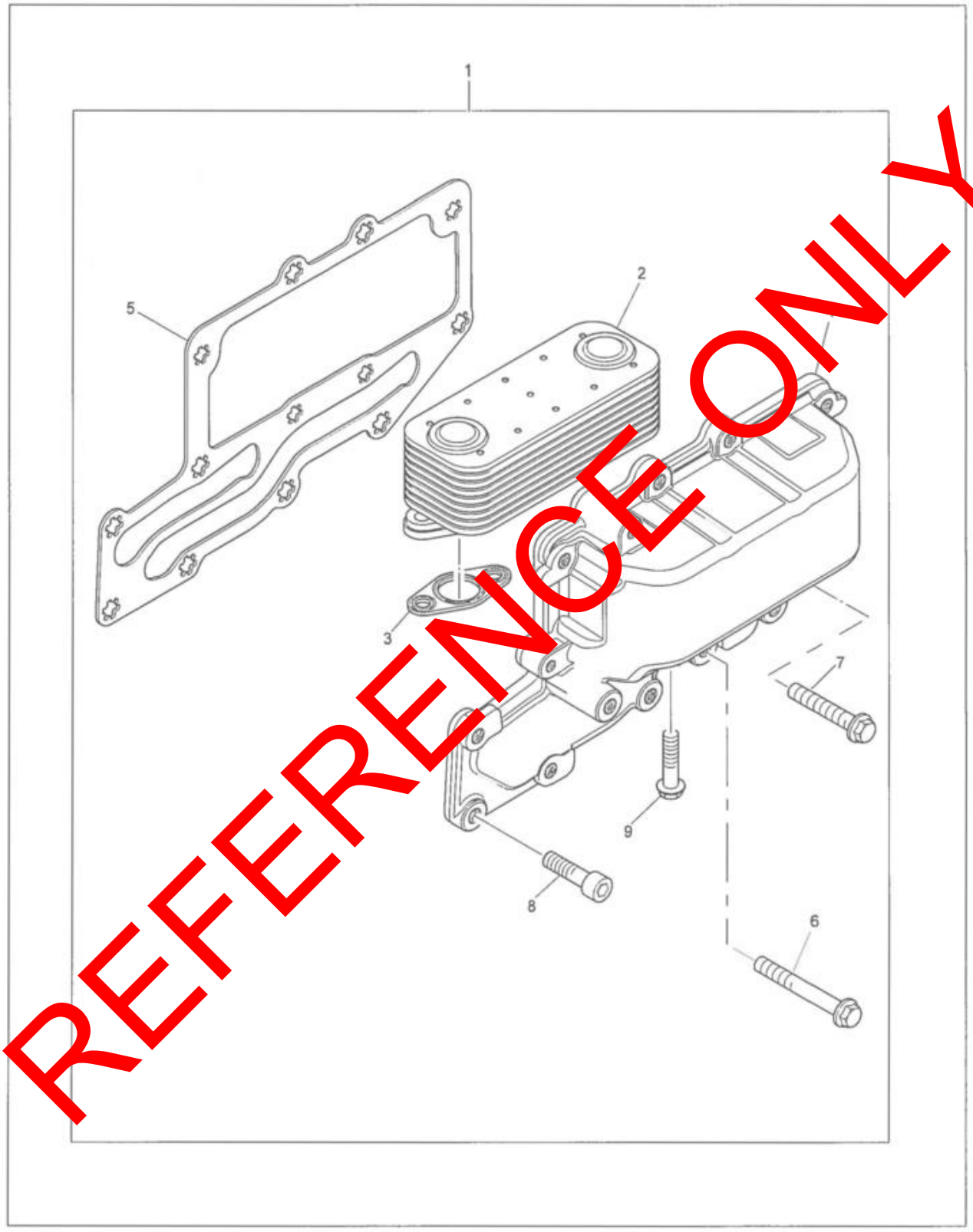
REFERENCE ONLY

Blanking Plates	Plate A
	HBHR2744

Item	Part No.	References	Qty.	Description	Notes
1	2485A124		1	PLUG	

REFERENCE ONLY

Oil Cooler	Plate A
PPL026084	JBHR2349



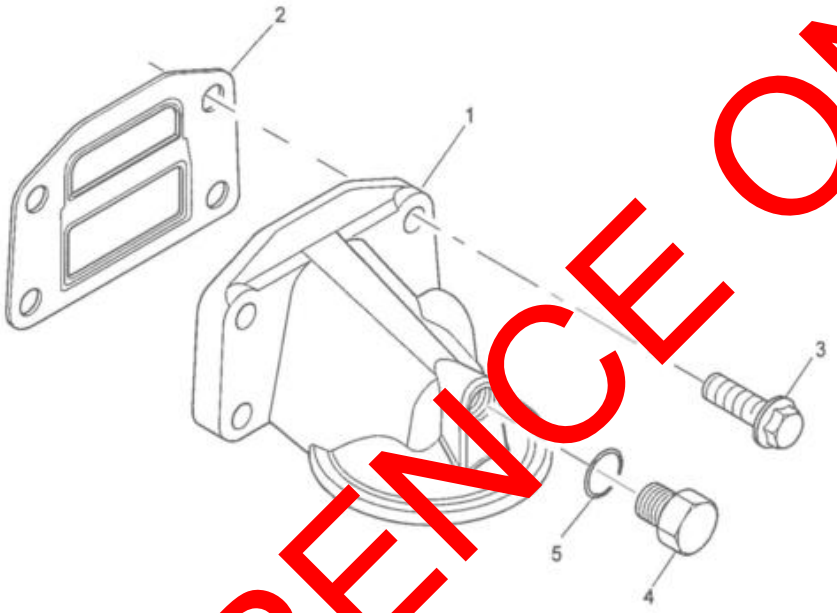
REFERENCE ONLY

Oil Cooler	Plate A
PPL026084	JBHR2349

Item	Part No.	References	Qty.	Description	Notes
1	4134W021		1	OIL COOLER	
2	└2486A217		1	OIL COOLER	
3	├3685A025		2	GASKET - OIL COOLER	
4	├	✏ 4134W021	1	HOUSING	
5	├3685A033		1	GASKET - OIL COOLER	
6	├2314K161		3	SCREW	
7	├2314H004		8	SCREW	
8	├2311D060		2	SCREW	
9	└2314H006		4	SCREW	

REFERENCE ONLY

Oil Filter	Plate A
	JBHR2349



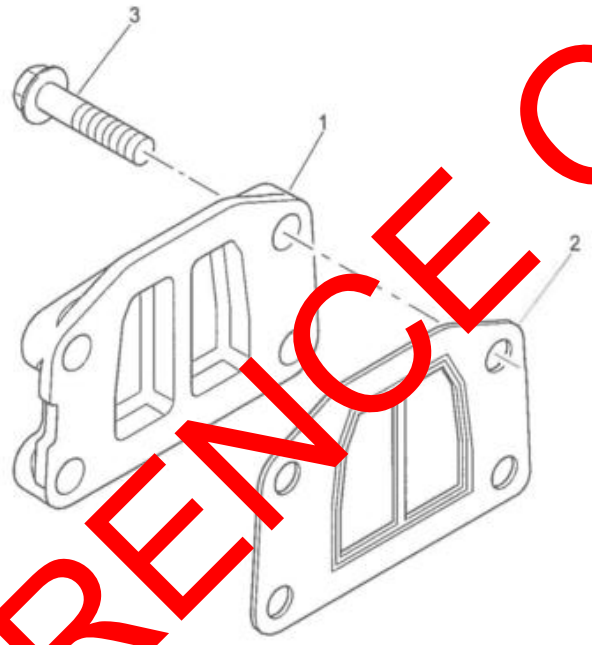
REFERENCE ONLY

Oil Filter	Plate A
	JBHR2349

Item	Part No.	References	Qty.	Description	Notes
1	3773A061		1	OIL FILTER HEAD	
2	3688A039		1	GASKET - OIL FILTER HEAD	
3	2314H034		4	SCREW	
4	3278A007		1	PLUG	
5	2415H009		1	SEAL - O RING	

REFERENCE ONLY

Blanking Plates	Plate A
	JBHR2349



REFERENCE ONLY

Blanking Plates	Plate A
	JBHR2349

Item	Part No.	References	Qty.	Description	Notes
1	3753A071		1	BLANKING COVER	
2	3688A041		1	GASKET - OIL FILTER HEAD	
3	2314H034		4	SCREW	

REFERENCE ONLY

Oil Filter	Plate A
	JDHR0023



REFERENCE ONLY

Oil Filter	Plate A
	JDHR0023

Item	Part No.	References	Qty.	Description	Notes
1	2654407		1	OIL FILTER	

REFERENCE ONLY

Front End Drive Input	Plate A
	KBHR0535



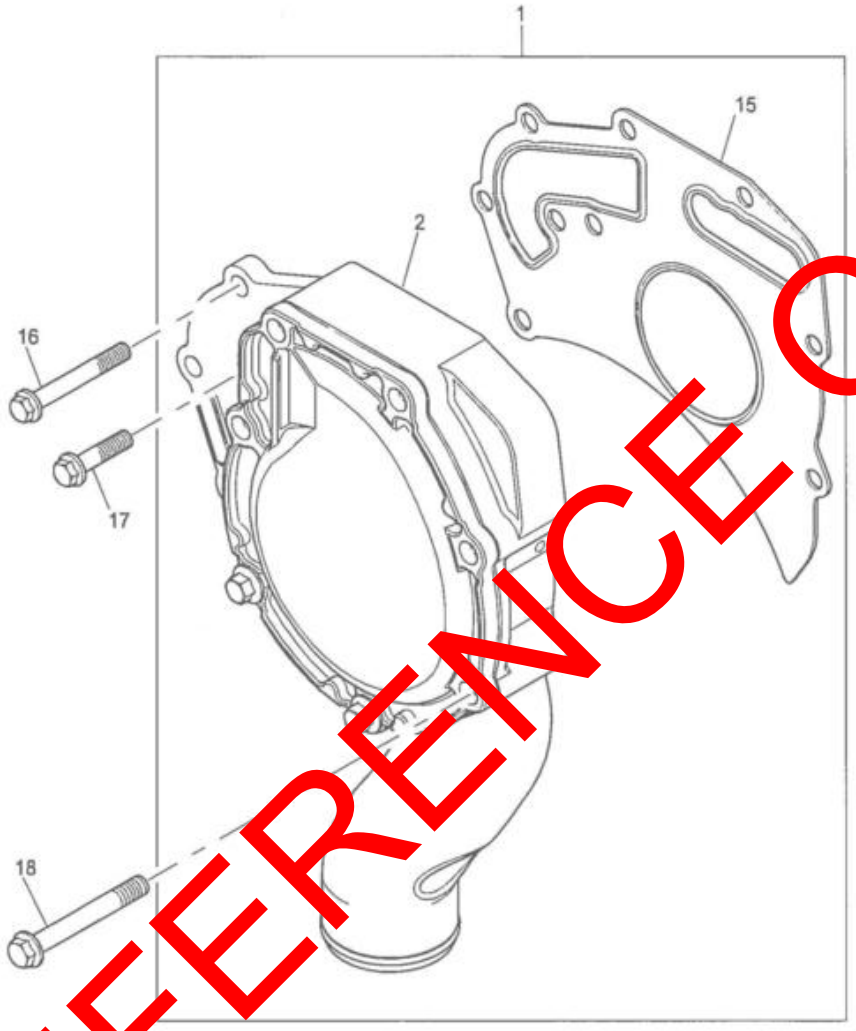
REFERENCE ONLY

Front End Drive Input	Plate A
	KBHR0535

Item	Part No.	References	Qty.	Description	Notes
1	3115T051		1	CRANKSHAFT PULLEY	
2	3241N001		1	BLOCK	
3	32186137		3	BOLT	

REFERENCE ONLY

Water Pump	Plate A
	LBHR2253



REFERENCE ONLY

Water Pump	Plate A
	LBHR2253

Item	Part No.	References	Qty.	Description	Notes
1	U5MW0194		1	WATER PUMP KIT	
2	├	✏ U5MW0194	1	WATER PUMP	
3	│ ├	✏ U5MW0194	1	BODY	
4	│ ├	✏ U5MW0194	1	COVER	
5	│ ├	✏ U7LW0172	1	GASKET	
6	│ ├	✏ U7LW0172	1	IMPELLER	
7	│ ├	✏ U7LW0172	1	DRIVE SHAFT	
8	│ ├	✏ U7LW0172	1	SEAL	
9	│ ├	✏ U7LW0172	1	CIRCLIP	
10	│ ├	✏ U7LW0172	1	CIRCLIP	
11	│ ├	✏ U7LW0172	1	ROLLER BEARIN	
12	│ ├	✏ U7LW0172	1	OIL SEAL	
13	│ ├	✏ U7LW0172	1	BEARIN	
14	│ └24880232		1	WATER UMP GEAR	
15	└3682A011		1	GASKET WATER P MP	(A)
16	2314K164		2	SCREW	
17	2314H005		2	SCREW	
18	2314H012			SCREW	

Footnotes	
(A)	ALSO INCLUDED IN REPAIR KIT U7LW0172

REFERENCE ONLY

Water Pump	Plate B
	LBHR2253



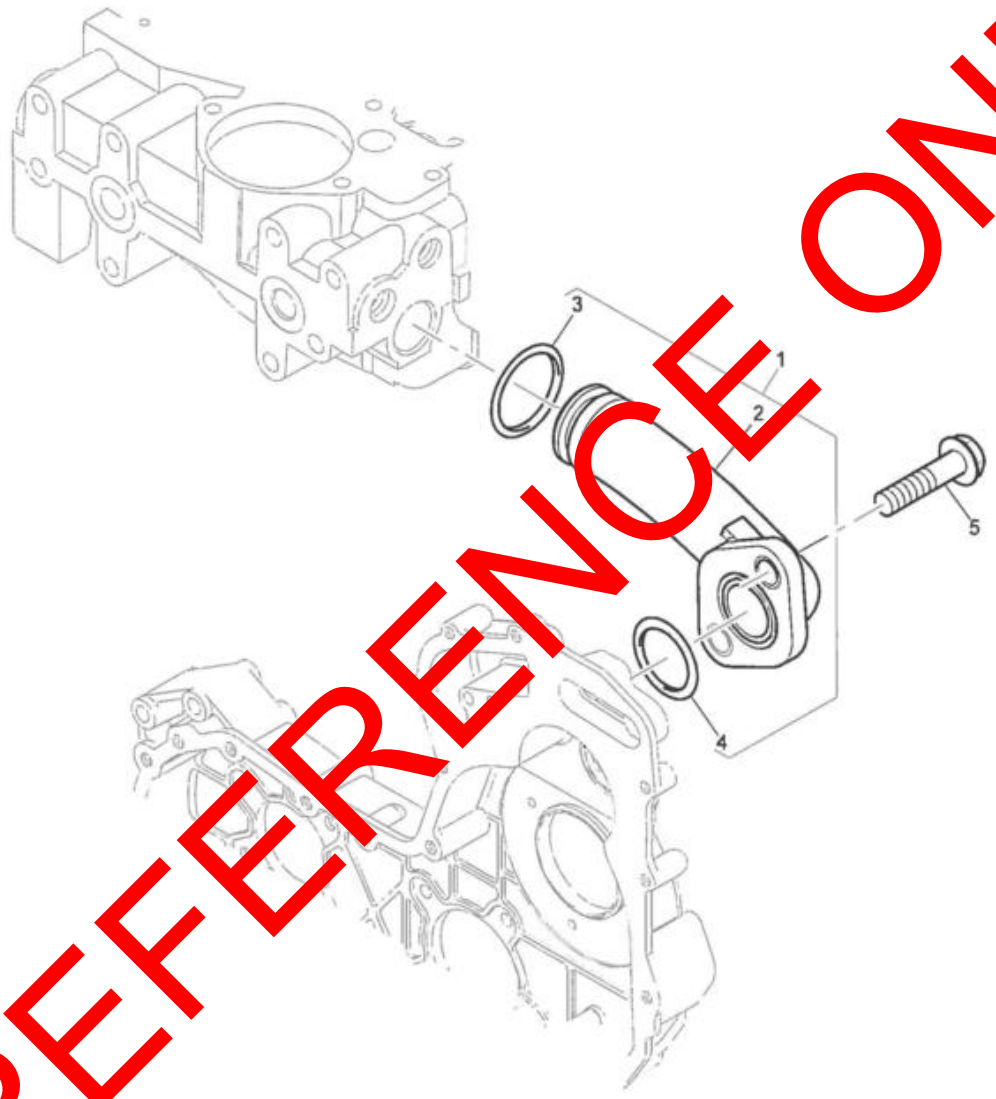
REFERENCE ONLY

Water Pump	Plate B
	LBHR2253

Item	Part No.	References	Qty.	Description	Notes
1	U7LW0172		1	REPAIR KIT - WATER PUMP	
2	—	✏ U7LW0172	1	IMPELLER	
3	—	✏ U7LW0172	1	ROLLER BEARING	
4	—	✏ U7LW0172	1	BEARING	
5	—	✏ U7LW0172	1	OIL SEAL	
6	—	✏ U7LW0172	1	SEAL	
7	—	✏ U7LW0172	1	CIRCLIP	
8	—	✏ U7LW0172	1	CIRCLIP	
9	24880234		1	GASKET - WATER PUMP	
10	—	✏ U7LW0172	1	DRIVE SHAFT	
11	3682A011		1	GASKET - WATER PUMP	

REFERENCE ONLY

LBHR2253



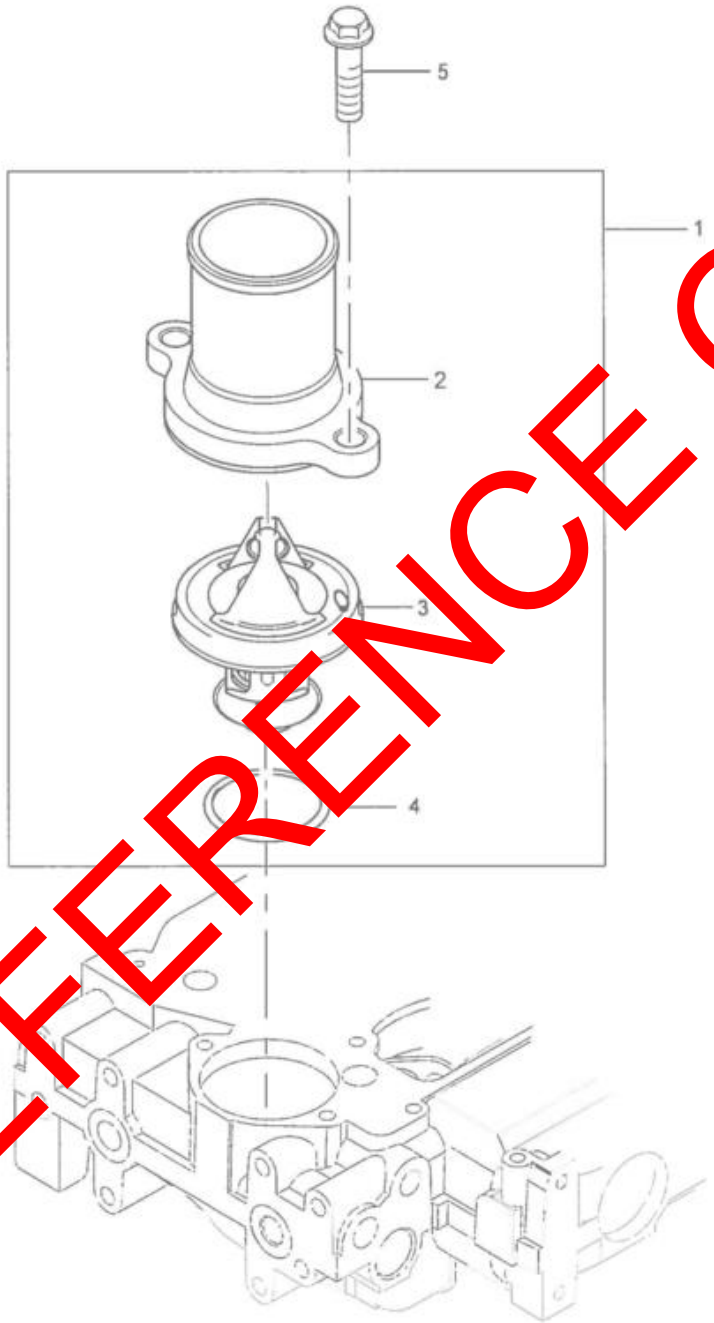
REFERENCE ONLY

Pipes	Plate A
	LBHR2253

Item	Part No.	References	Qty.	Description	Notes
1	4133L048		1	CONNECTION	
2	├	⇨ 4133L048	1	CONNECTION	
3	├2418F002		1	SEAL - O RING	
4	└2418F001		1	SEAL - O RING	
5	2314H003		2	SCREW	

REFERENCE ONLY

Water Outlet Housing	Plate A
→← 31/01/2004	LDHR0702



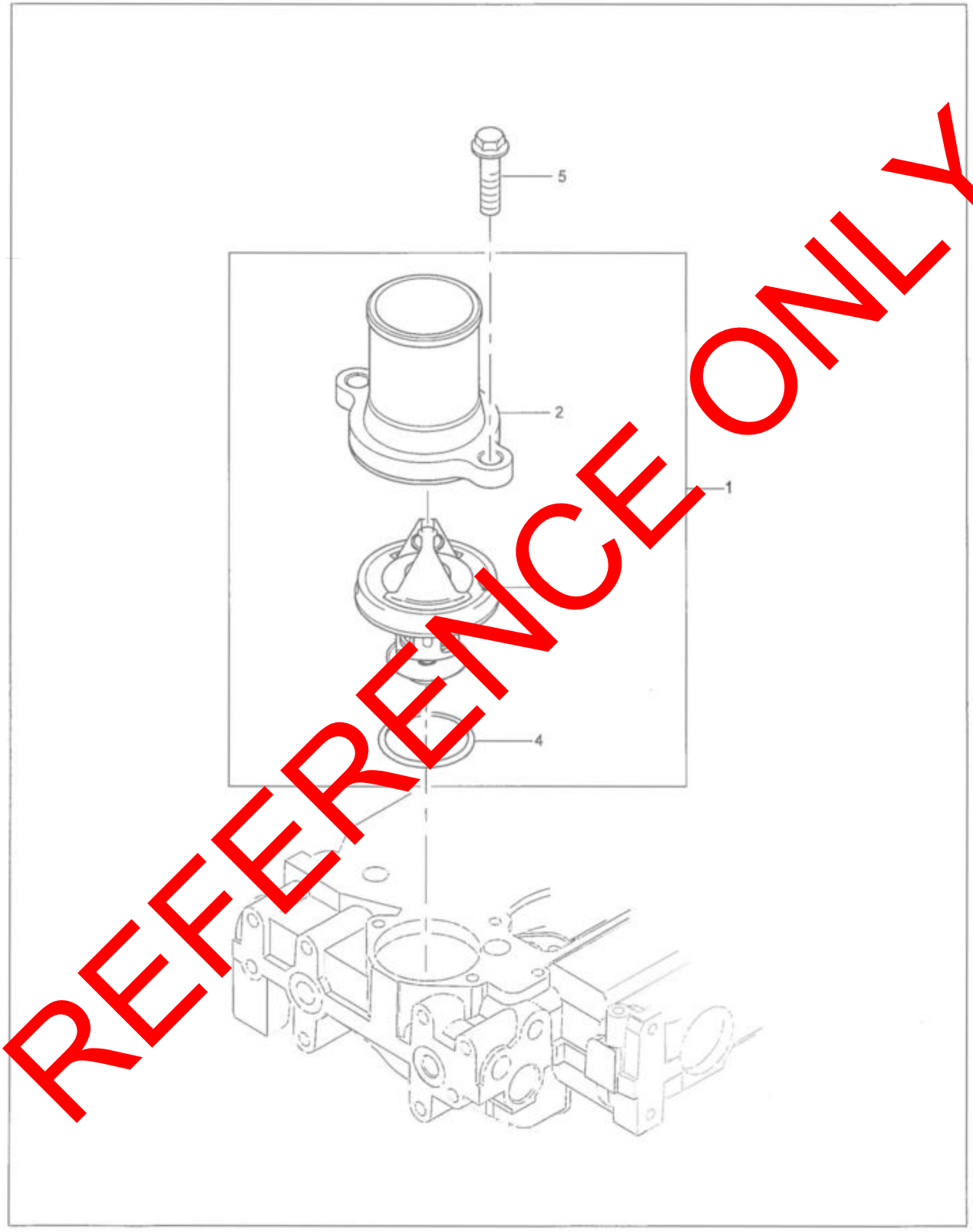
REFERENCE ONLY

Water Outlet Housing	Plate A
→| 31/01/2004	LDHR0702

Item	Part No.	References	Qty.	Description	Notes
1	4133L501		1	CONNECTION	
2	├─	⇨ 4133L501	1	CONNECTION	
3	├─2485C041		1	THERMOSTAT	
4	└─2415H008		1	SEAL - WATER OUTLET	
5	2314H004		2	SCREW	

REFERENCE ONLY

Water Outlet Housing	Plate A
↦ 01/02/2004	LDHR0702



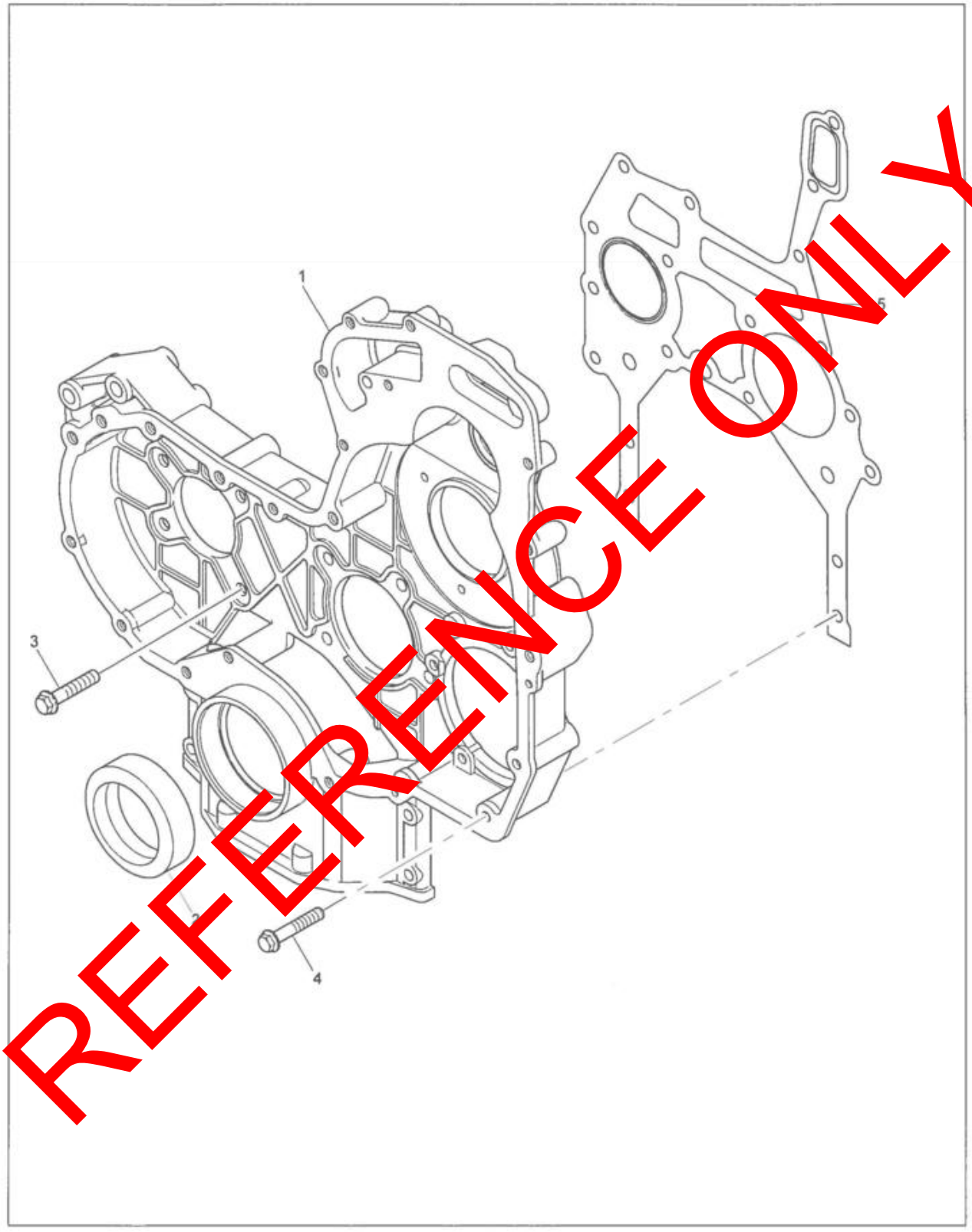
REFERENCE ONLY

Water Outlet Housing	Plate A
↦ 01/02/2004	LDHR0702

Item	Part No.	References	Qty.	Description	Notes
1	4133L507		1	CONNECTION	
2	├	⇨ 4133L507	1	CONNECTION	
3	├	⇨ 4133L507	1	THERMOSTAT	
4	└2415H219		1	SEAL - WATER OUTLET	
5	2314H004		2	SCREW	

REFERENCE ONLY

Timing Case	Plate A
	QCHR0024



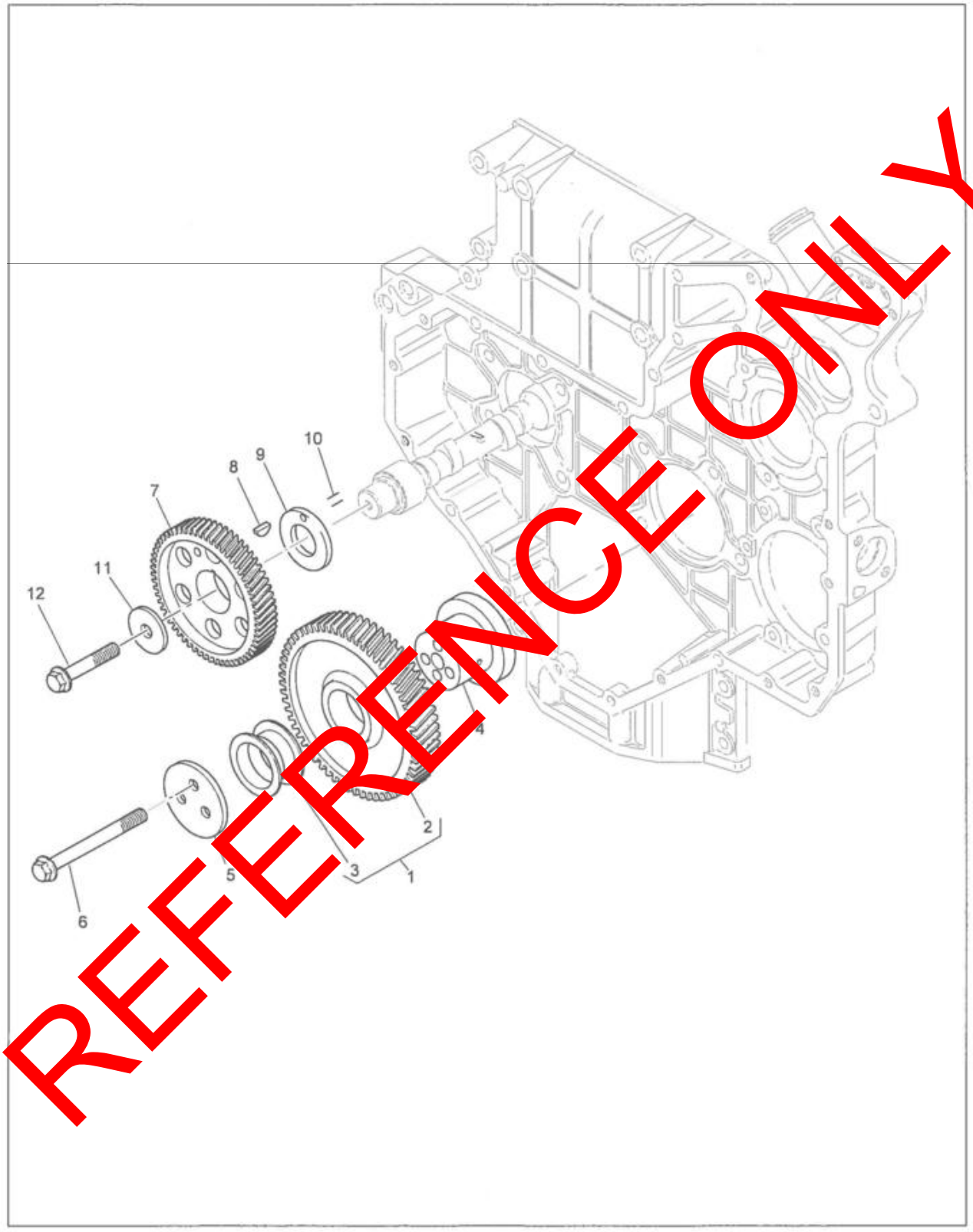
REFERENCE ONLY

Timing Case	Plate A
	QCHR0024

Item	Part No.	References	Qty.	Description	Notes
1	3716C471		1	TIMING CASE	
2	2418F437	b.	1	FRONT OIL SEAL	
3	2314H003		8	SCREW	
4	2314H034		4	SCREW	
5	3681P053	a. a.	1	GASKET - TIMING CASE	
History					
a.					
5	3617V015		1	GASKET - TIMING CASE	
5	3617V016		1	GASKET - TIMING CASE	
b.					
2	2418F436		1	SEAL - FRONT END OIL	

REFERENCE ONLY

Timing Case	Plate B
	QCHR0024



REFERENCE ONLY

Timing Case	Plate B
	QCHR0024

Item	Part No.	References	Qty.	Description	Notes
1	4111A034	d. e. g.	1	IDLER GEAR	
2	├	4111A034	1	IDLER GEAR	
3	└	4111A034 d.	1	BUSH	
4	3272A041	b. f.	1	HUB	
5	3241A025	a. c.	1	PLATE	
6	2314J011	c.	3	SCREW	
7	3117N001		1	CAMSHAFT GEA	
8	0500012		1	WOODRUFF KEY	
9	3112X011		1	THRUST WASHE	
10	2116053		1	DOWEL	
11	3321A003		1	WASHE	
12	2314J606		1	SCREW	

History

a.

5	3241A021	1	PLAT

b.

4	3272A026	1	HUB

c.

5	3241H009	1	PLATE
6	2314J010	3	SCREW

d.

1	4111A034	1	IDLER GEAR
3	└0050345	2	IDLER GEAR BUSH

e.

1	3117N042	1	IDLER GEAR

f.

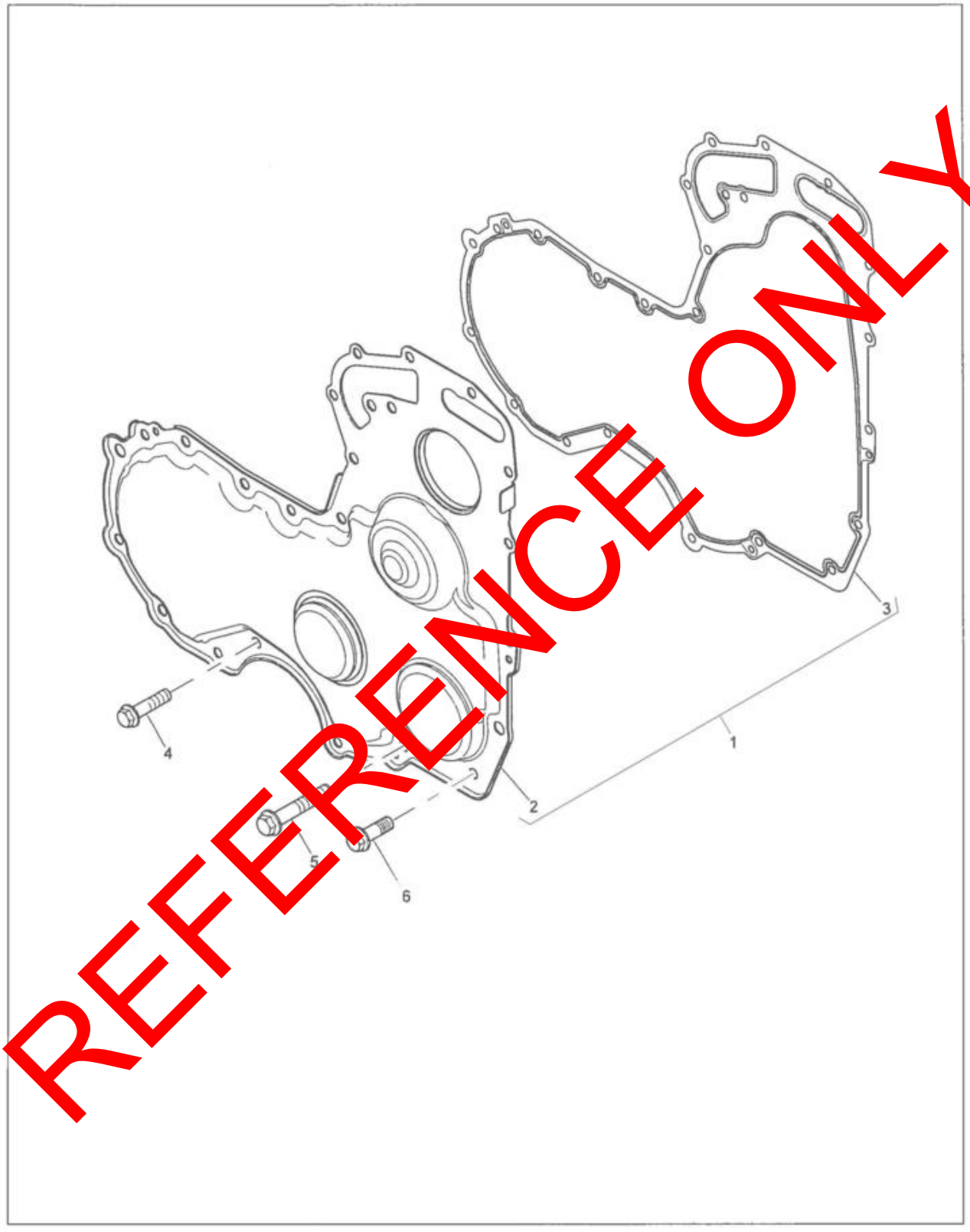
4	33426161	1	HUB

g.

1	3117 041	1	IDLER GEAR

REFERENCE ONLY

Timing Cover	Plate A
	QCHR0024



REFERENCE ONLY

Timing Cover	Plate A
	QCHR0024

Item	Part No.	References	Qty.	Description	Notes
1	4142A504	a.	1	TIMINGGEAR COVER	
2	├	4142A504	1	TIMING COVER	
3	└3681P047		1	GASKET - TIMING CASE COVER	
4	2314H002		9	SCREW	
5	2314H012		5	SCREW	
6	2314J002		1	SCREW	

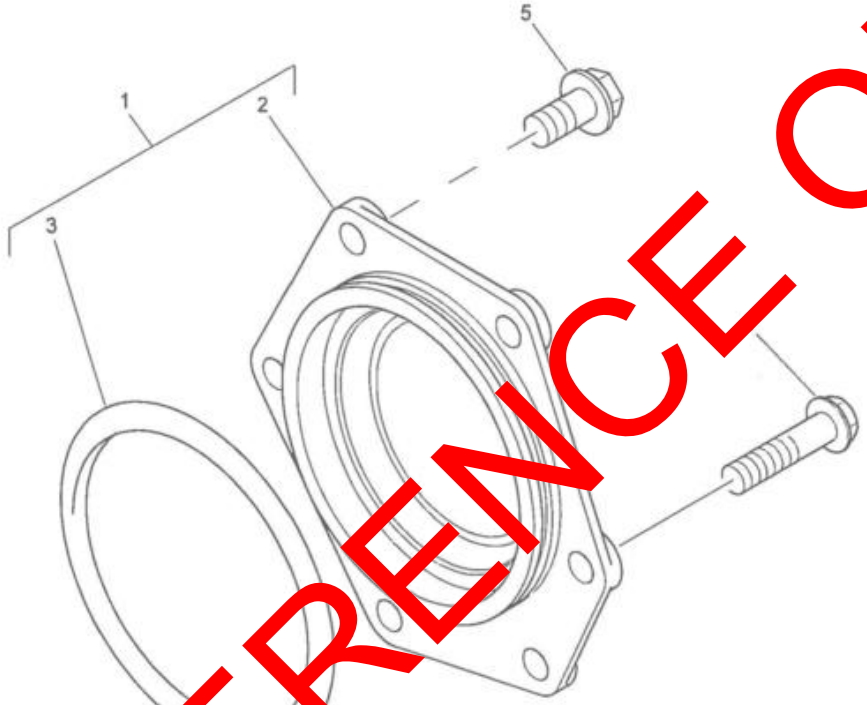
History

a.

1	4142A502	1	TIMINGGEAR COVER

REFERENCE ONLY

Blanking Plates	Plate A
	QDHR1380



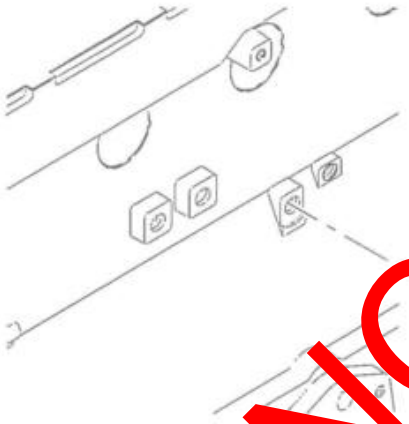
REFERENCE ONLY

Blanking Plates	Plate A
	QDHR1380

Item	Part No.	References	Qty.	Description	Notes
1	4148K006		1	BLANKING PLATE	
2	├	✏ 4148K006	1	BLANKING PLATE	
3	└2415H503		1	SEAL - O RING	
4	2314H032		5	SCREW	
5	2314J002		1	SCREW	

REFERENCE ONLY

Blanking Plugs	Plate A
	QDHR1380



REFERENCE ONLY

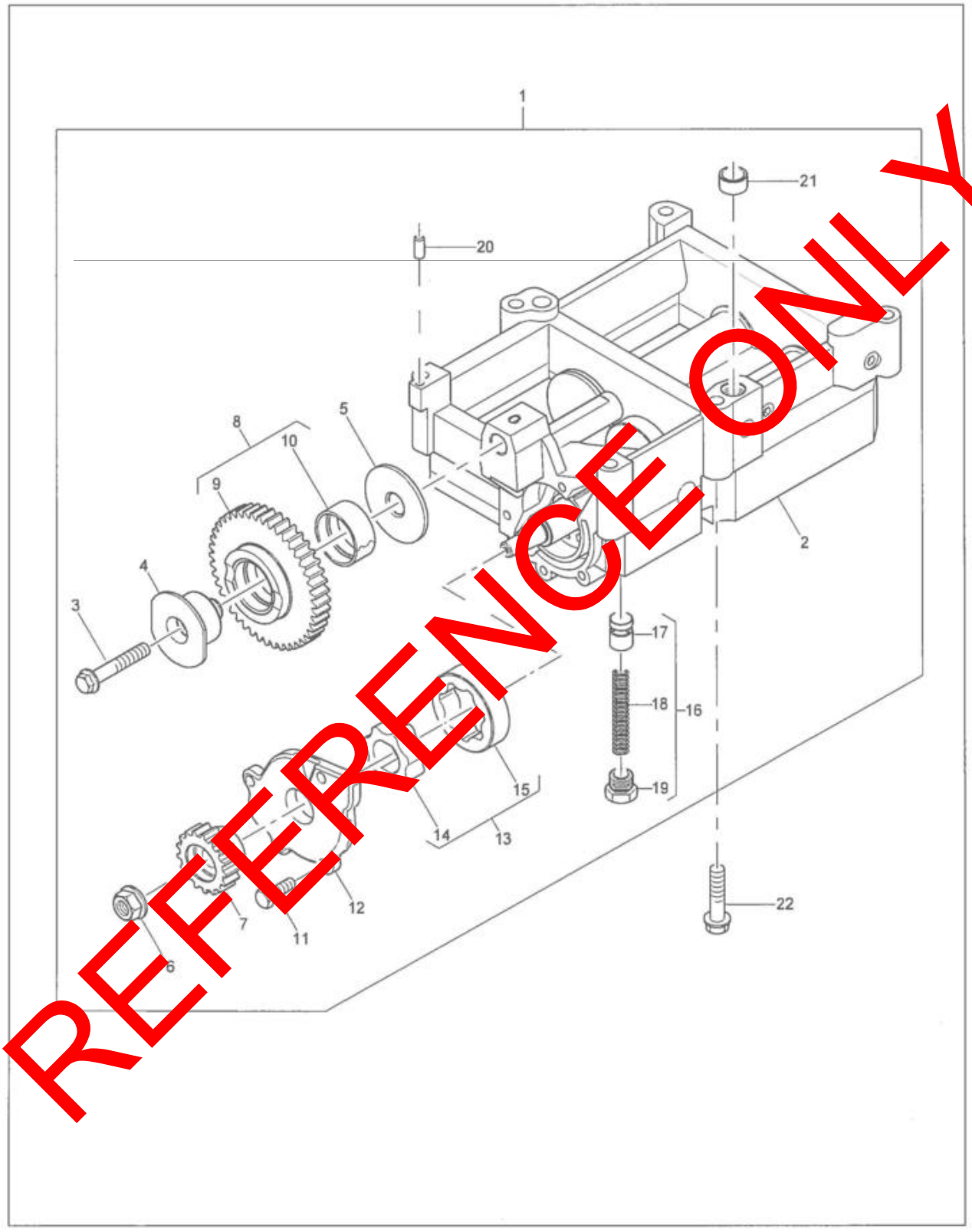
Blanking Plugs	Plate A
	QDHR1380

Item	Part No.	References	Qty.	Description	Notes
1	2314C049	a.	1	SCREW	
2	2415D053		1	WASHER	

History					
a.					
1	3212V005		1	PLUG	

REFERENCE ONLY

Lubricating Oil Pump & Delivery Housing	Plate A
	RBHR0029



REFERENCE ONLY

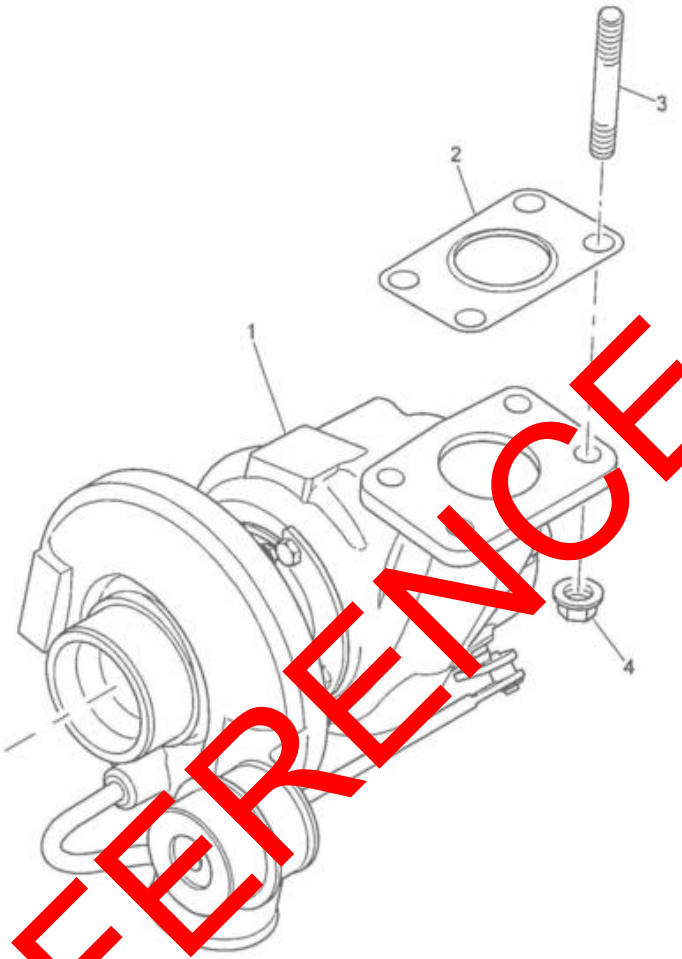
Lubricating Oil Pump & Delivery Housing	Plate A
RBHR0029	

Item	Part No.	References	Qty.	Description	Notes
1	4111K073	a.	1	BALANCER	
2	├	4111K073	1	FRAME	
3	├2314H951		1	BOLT	
4	├3272A022	a.	1	SHAFT	
5	├3321A006		1	THRUST WASHER	
6	├2318F605		1	NUT	
7	├3117A101		1	BALANCER GEAR	
8	├4111A029		1	BALANCER GEAR	
9	│ ├	4111A029	1	GEAR	
10	│ └3112D031		1	BEARING	
11	├2314C945		5	SCREW	
12	├3753R351		1	COVER	
13	├4111K068		1	ROTOR	
14	│ ├	4111K068	1	ROTOR	
15	│ └	4111K068	1	ROTOR	
16	├U5MK0695		1	RELIEF VALVE	
17	│ ├3245A002		1	CONTACT	
18	│ ├3174A021		1	SPRING	
19	│ └3218A013		1	PLUG	
20	├3244A013		1	DOWEL	
21	└33137409		1	THIMBLE	
22	2314J012		6	SCREW	

History					
a.					
1	4111K073		1	BALANCER	
4	└3272A018		1	SHAFT	

REFERENCE ONLY

Turbocharger	Plate A
	SBHR1548



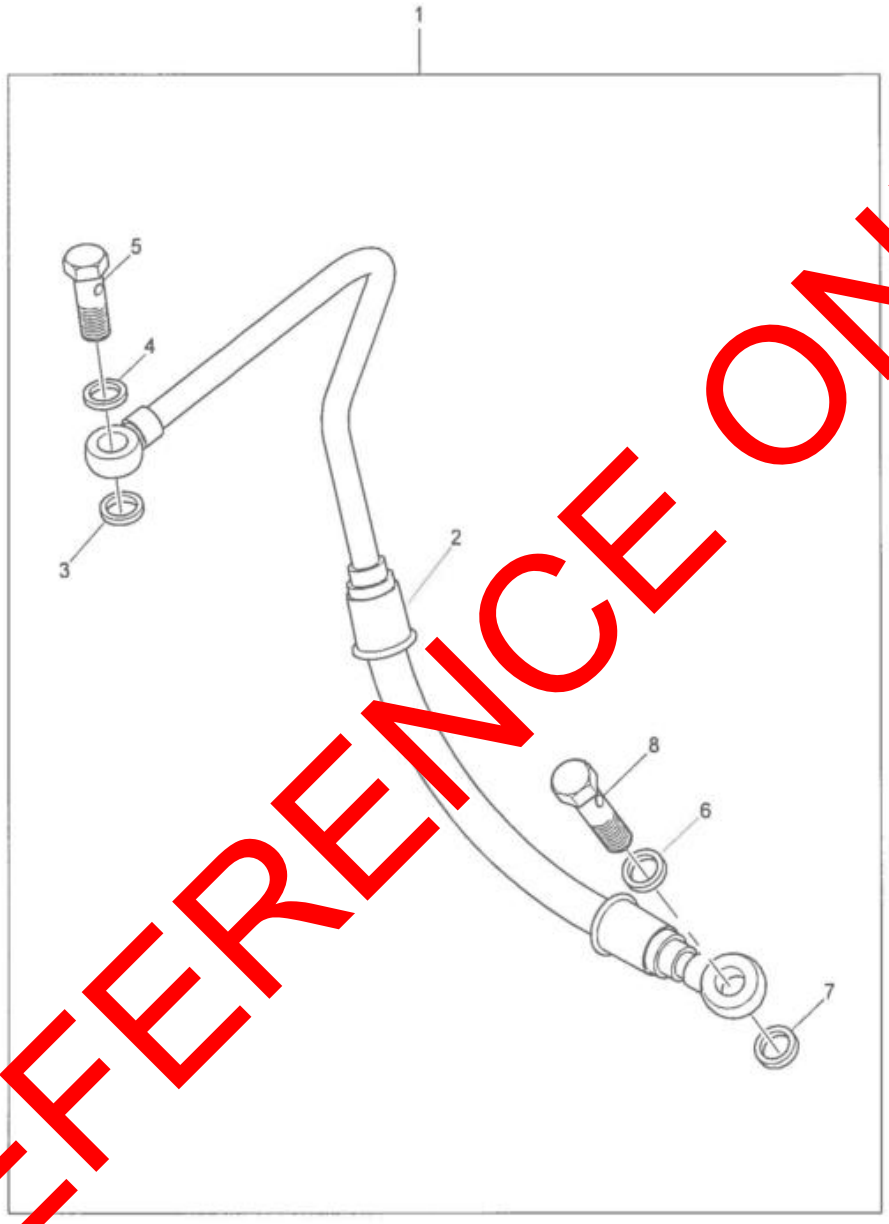
REFERENCE ONLY

Turbocharger	Plate A
	SBHR1548

Item	Part No.	References	Qty.	Description	Notes
1	2674A225		1	TURBOCHARGER	
2	3688A029		1	GASKET - TURBOCHARGER	
3	2313M377		4	STUD	
4	2318A634		4	NUT	
Service Options					
1	2674A225P		1	TURBOCHARGER	

REFERENCE ONLY

Feed Pipes	Plate A
	SBHR1548



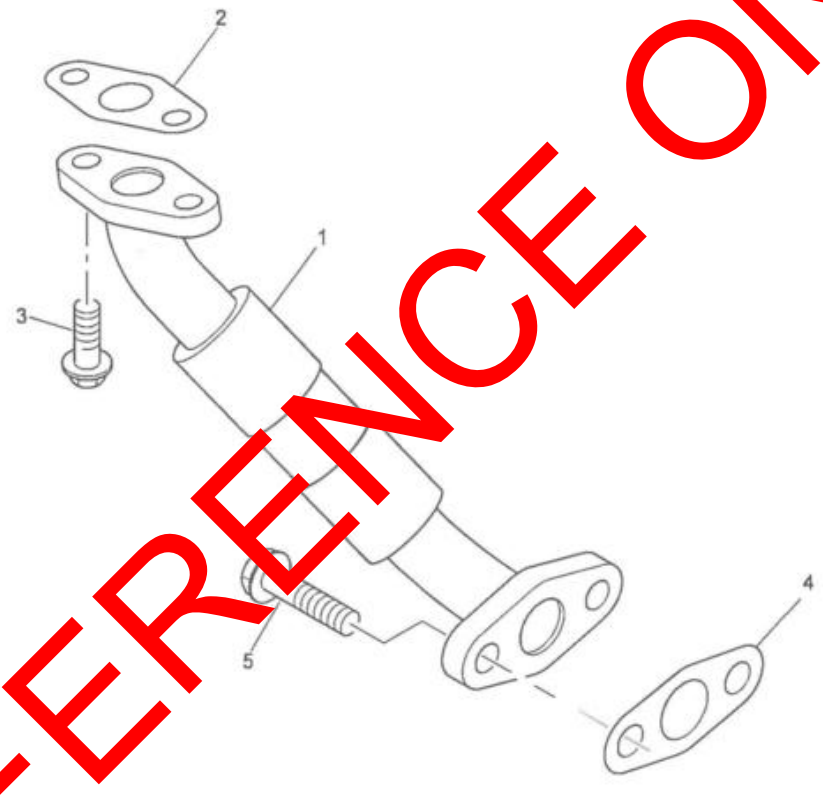
REFERENCE ONLY

Feed Pipes	Plate A
	SBHR1548

Item	Part No.	References	Qty.	Description	Notes
1	4128A028		1	PIPE - TURBO OIL FEED	
2	⌐	⇨ 4128A028	1	PIPE - TURBO OIL FEED	
3	├2131A506		1	WASHER	
4	├2131A506		1	WASHER	
5	├3218R036		1	BANJO BOLT	
6	├2131A506		1	WASHER	
7	├2131A506		4	WASHER	
8	└3218R036		2	BANJO BOLT	

REFERENCE ONLY

Leak-Off Pipes	Plate A
	SBHR1548



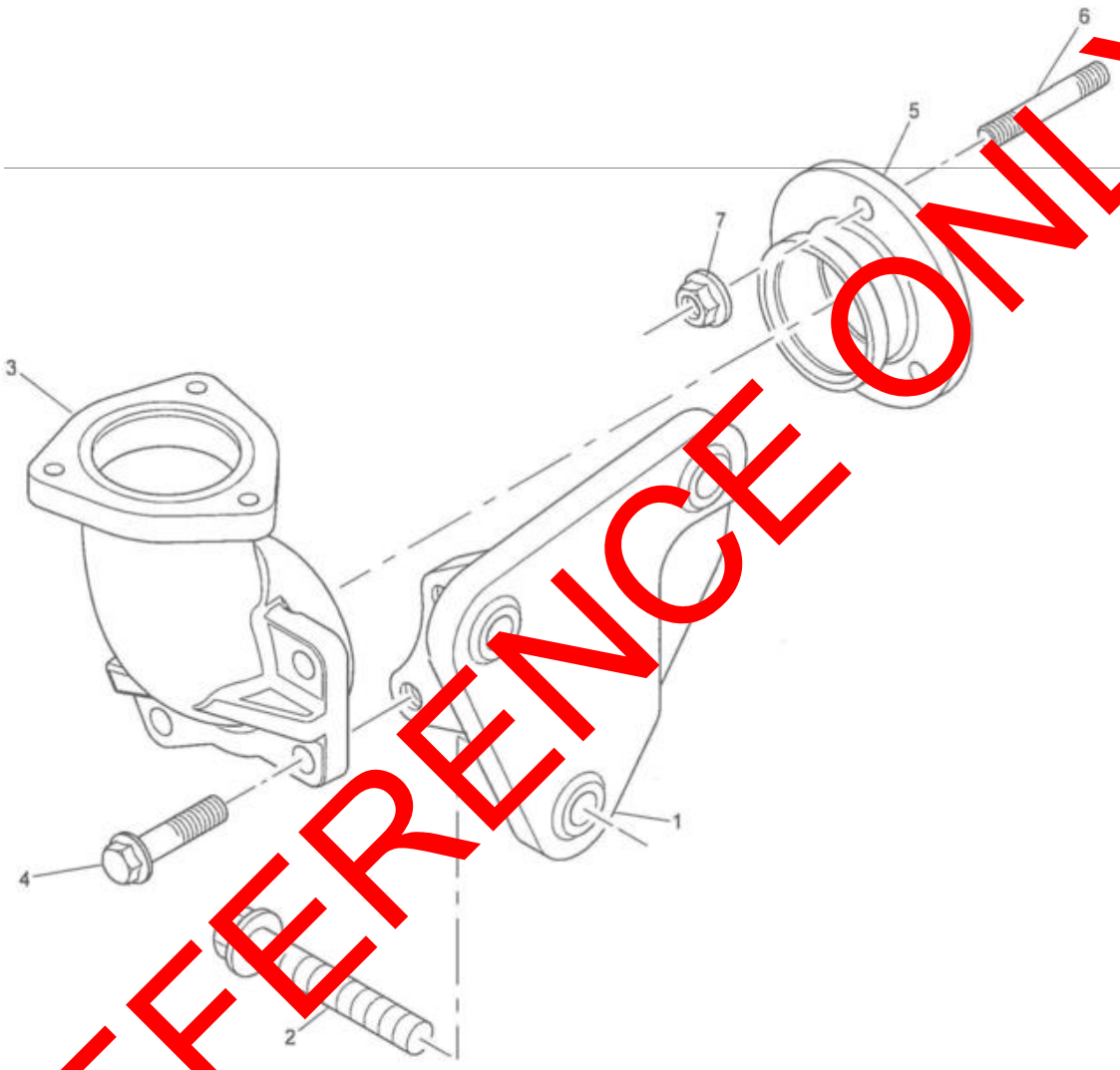
REFERENCE ONLY

Leak-Off Pipes	Plate A
	SBHR1548

Item	Part No.	References	Qty.	Description	Notes
2	3688A035		1	GASKET	
1	3584A002		1	PIPE - TURBO OIL DRAIN	
3	2314F004		2	SCREW	
4	3688A036		1	GASKET	
5	2314H003		2	SCREW	

REFERENCE ONLY

SBHRI548



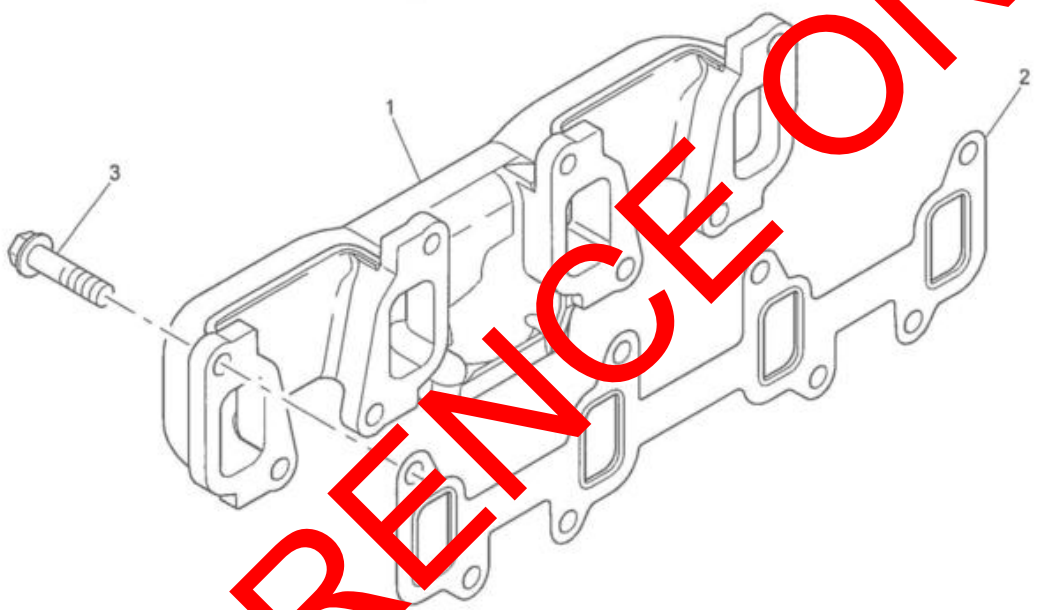
REFERENCE ONLY

Pipework & Connections	Plate A
	SBHR1548

Item	Part No.	References	Qty.	Description	Notes
1	3824A081		1	BRACKET	
2	2314J004		2	SCREW	
3	3766A131		1	EXHAUST ELBOW	
4	2314J003		3	SCREW	
5	3347A041		1	ADAPTOR	
6	2313M377		3	STUD	
7	2318A634		3	NUT	

REFERENCE ONLY

Exhaust Manifold	Plate A
	SBHR1548



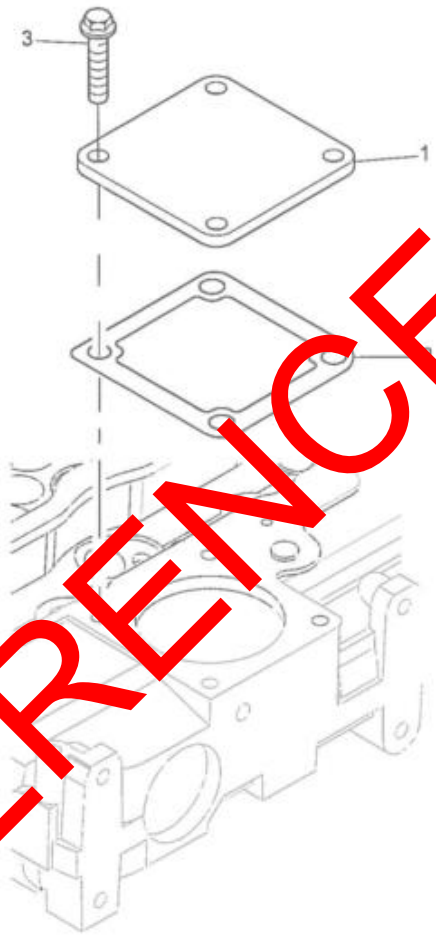
REFERENCE ONLY

Exhaust Manifold	Plate A
	SBIIR1548

Item	Part No.	References	Qty.	Description	Notes
1	3778E213		1	EXHAUST MANIFOLD	
2	3681V512		1	GASKET - EXHAUST MANIFOLD	
3	3218J013		8	SCREW	

REFERENCE ONLY

TBHR0980



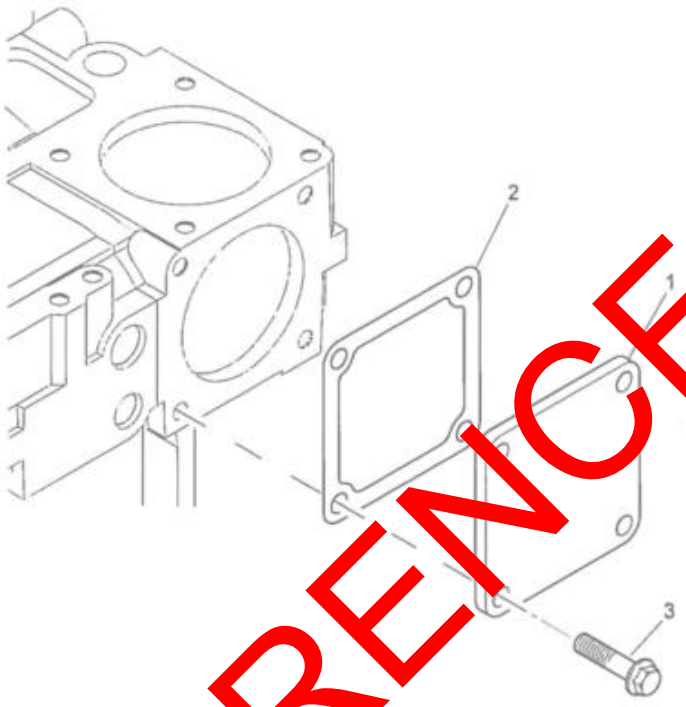
REFERENCE ONLY

Air Charge Cooler	Plate A
	TBHR0980

Item	Part No.	References	Qty.	Description	Notes
1	3611M006		1	PLATE	
2	3684N503		1	GASKET	
3	2314H033		4	SCREW	

REFERENCE ONLY

TBHR0980



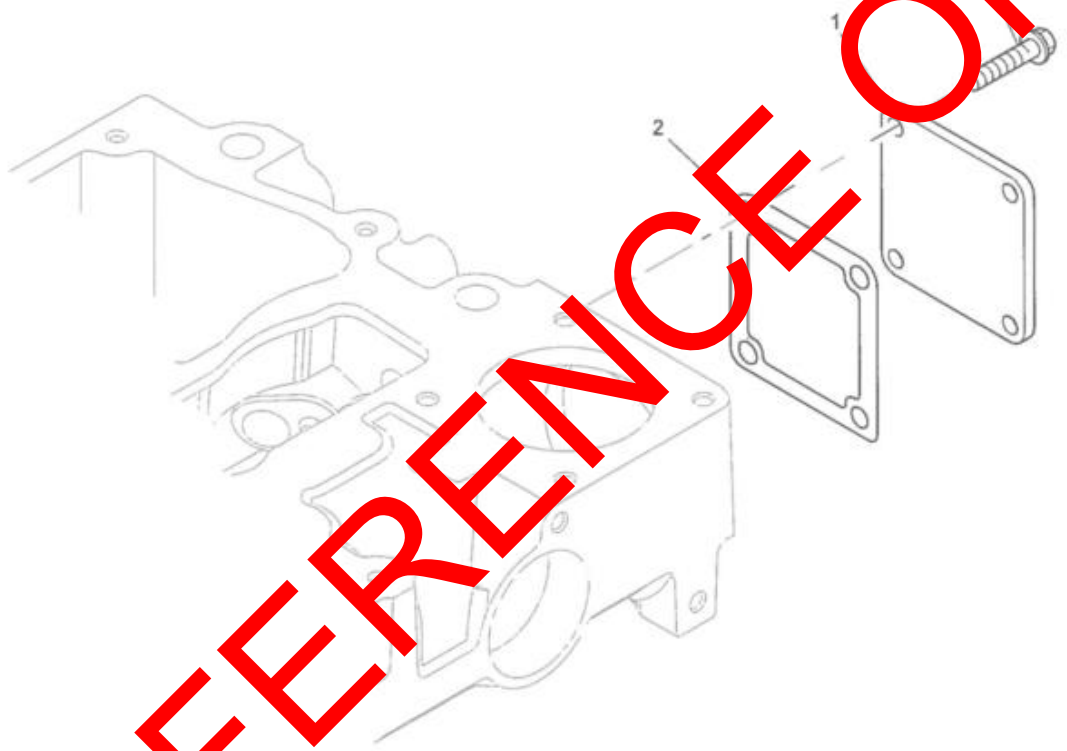
REFERENCE ONLY

Air Charge Cooler	Plate B
	TBHR0980

Item	Part No.	References	Qty.	Description	Notes
1	3611M006		1	PLATE	
2	3684N503		1	GASKET	
3	2314H033		4	SCREW	

REFERENCE ONLY

TBHR0980



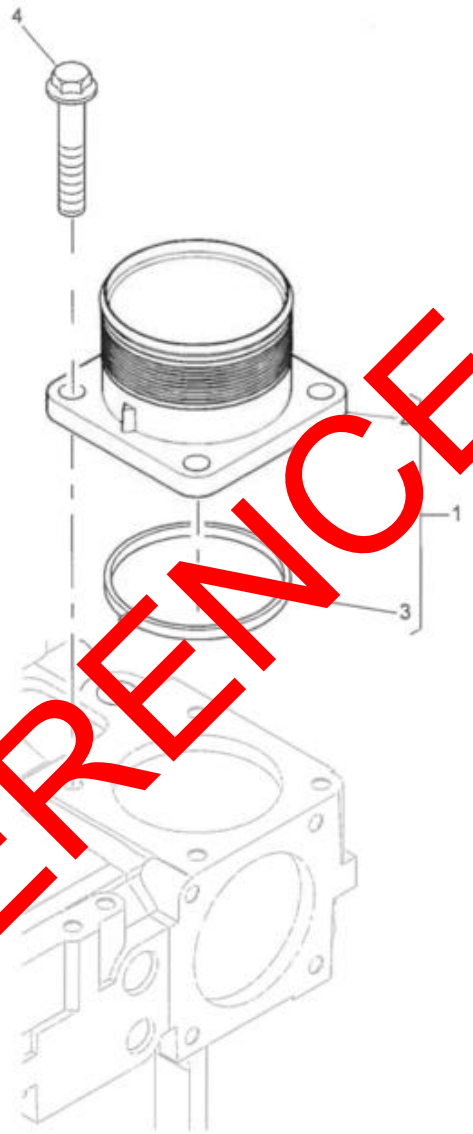
REFERENCE ONLY

Air Charge Cooler	Plate C
	TBHR0980

Item	Part No.	References	Qty.	Description	Notes
1	3611M006		1	PLATE	
2	3684N503		1	GASKET	
3	2314H033		4	SCREW	

REFERENCE ONLY

TBHR0980



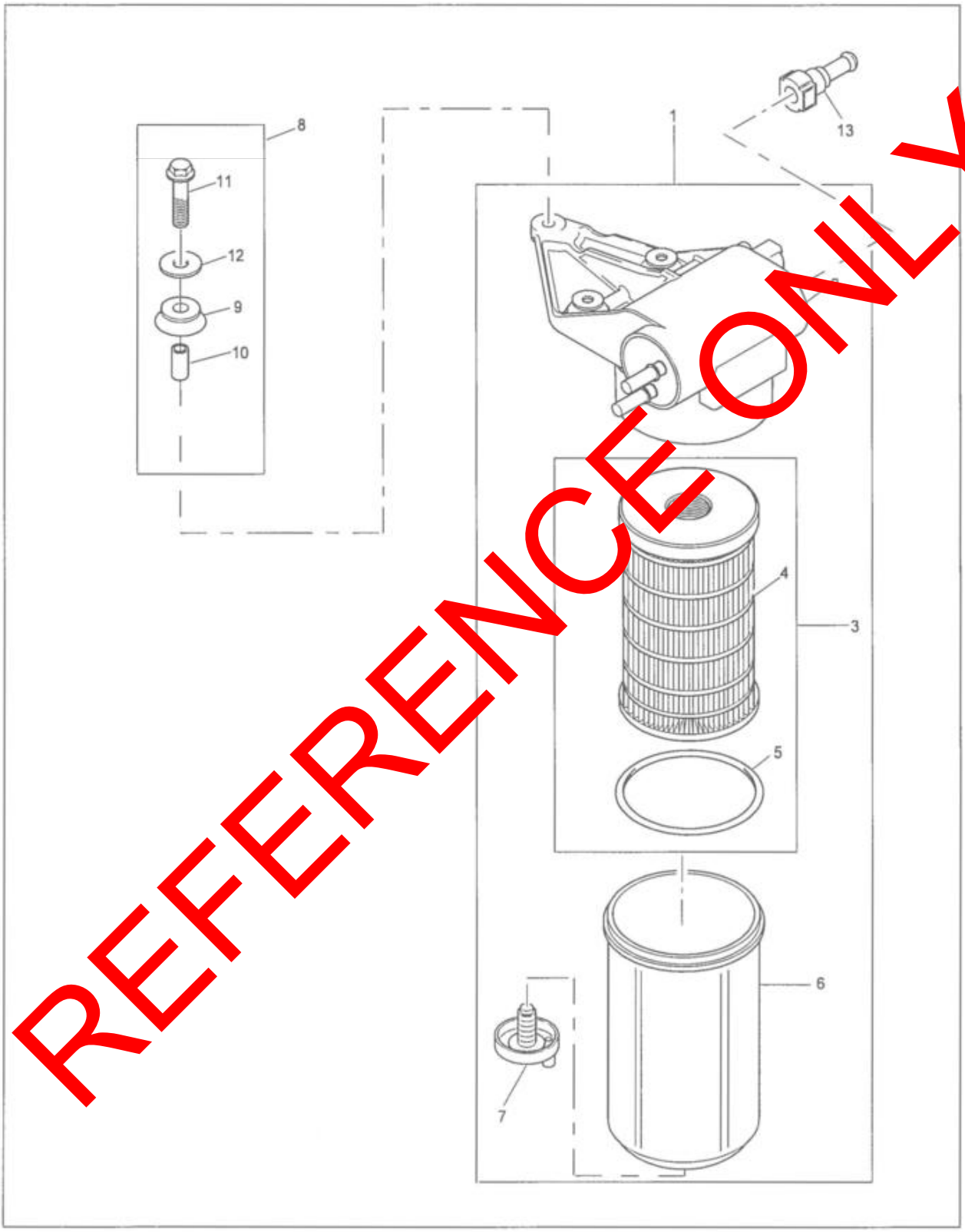
REFERENCE ONLY

Pipework & Connections	Plate A
	TBHR0980

Item	Part No.	References	Qty.	Description	Notes
1	4148K007		1	CONNECTION	
2	├	⇨ 4148K007	1	CONNECTION	
3	└3682A013		1	GASKET - IND MANIFOLD	
4	2314H034		4	SCREW	

REFERENCE ONLY

Lift Pump	Plate C
PPL023952	VBHR2178



REFERENCE ONLY

Lift Pump	Plate C
PPL023952	VBHR2178

Item	Part No.	References	Qty.	Description	Notes
1	4132A014		1	LIFT PUMP	
2	├	4132A014	1	LIFT PUMP	
3	├26560201		1	FUEL FILTER	
4	│ ├	26560201	1	FUEL FILTER ELEMENT	
5	│ └	26560201	1	O RING	
6	├2656F837		1	BOWL	
7	└2656F836		1	DRAIN PLUG	
8	U5MK0696	a.	1	MOUNTING KIT	
9	├	U5MK0696	6	MOUNTING	
10	├	U5MK0696	3	SPACER	
11	├2314F009	a.	3	SCREW	
12	└2131A507		3	WASHER	
13	3763A046		1	CONNECTION	

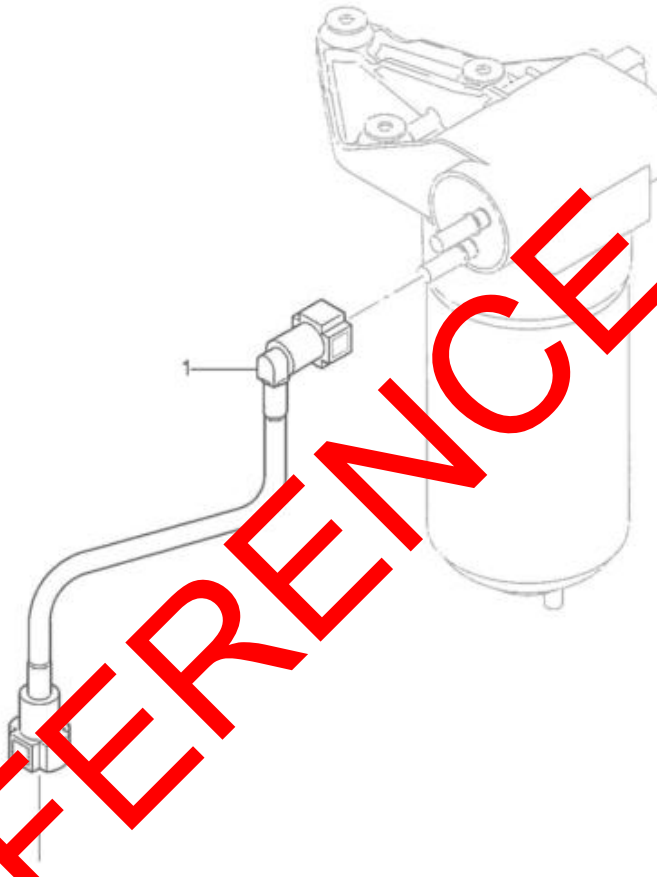
History

a.

8	U5MK0696	1	MOUNTING KIT
11	└2314F909	3	SCREW

REFERENCE ONLY

Filter to Injection Pump Pipe	Plate A
	VBHR2178



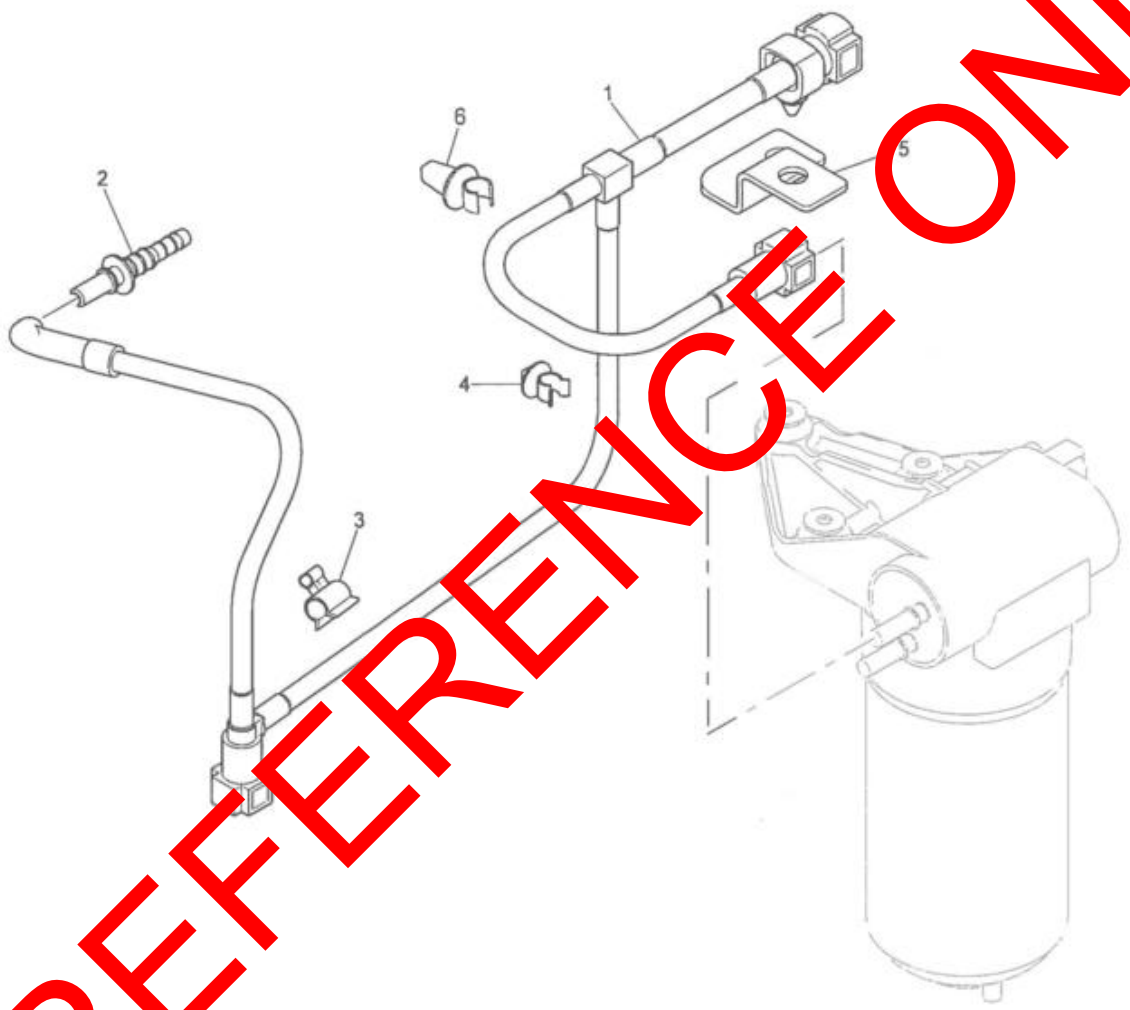
REFERENCE ONLY

Filter to Injection Pump Pipe	Plate A
	VBHR2178

Item	Part No.	References	Qty.	Description	Notes
1	2646F001		1	PIPE - LOW PRESSURE FUEL	

REFERENCE ONLY

Injection Pump to Filter Pipe	Plate B
PPL030522	VBHR2178



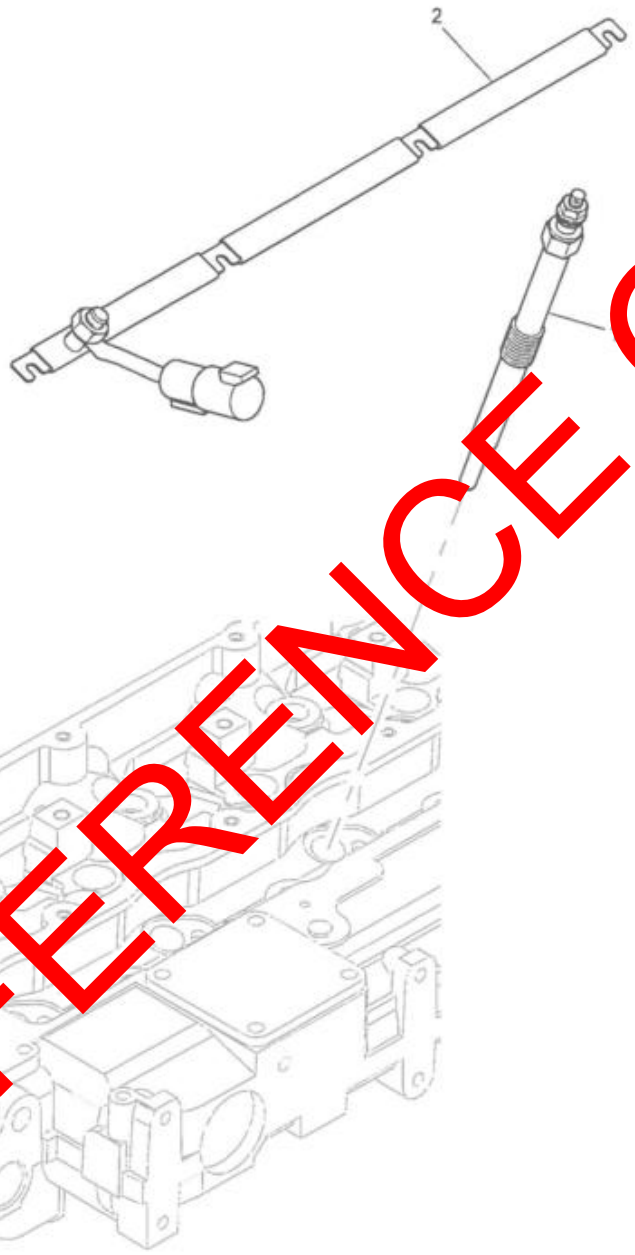
REFERENCE ONLY

Injection Pump to Filter Pipe	Plate B
PPL030522	VBHR2178

Item	Part No.	References	Qty.	Description	Notes
1	2646F009		1	PIPE - LOW PRESSURE FUEL	
2	3763A045		1	CONNECTION	
3	K138AF02		1	CLIP	
4	2481D456		1	CLIP	
5	3733A011		1	BRACKET	
6	2481D558		2	CLIP	

REFERENCE ONLY

WDHR0345



REFERENCE ONLY

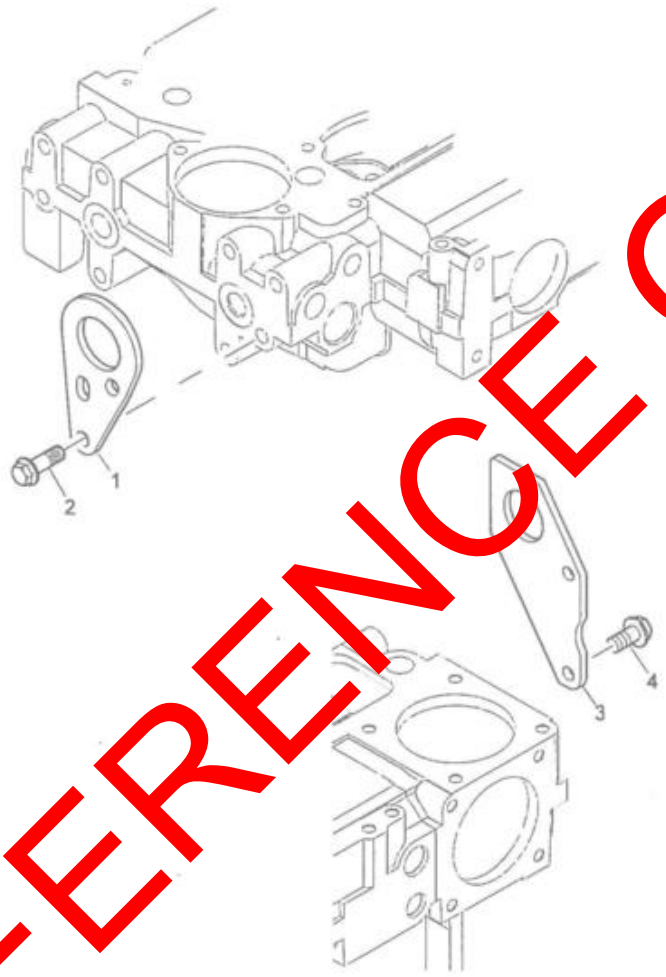
Heater Plugs	Plate A
	WDHR0345

Item	Part No.	References	Qty.	Description	Notes
1	2666A016		4	GLOWPLUG	
2	3161C019	a.	1	BAR	

History
a.
2 3161C015 1 BAR

REFERENCE ONLY

Engine Lifting Eyes	Plate A
	XBHR0458



REFERENCE ONLY

Engine Lifting Eyes	Plate A
	XBHR0458

Item	Part No.	References	Qty.	Description	Notes
1	3617A015		1	LIFTING BRACKET	
2	2314J002		2	SCREW	
3	3624A016	a.	1	LIFTING BRACKET	
4	2314J002		2	SCREW	

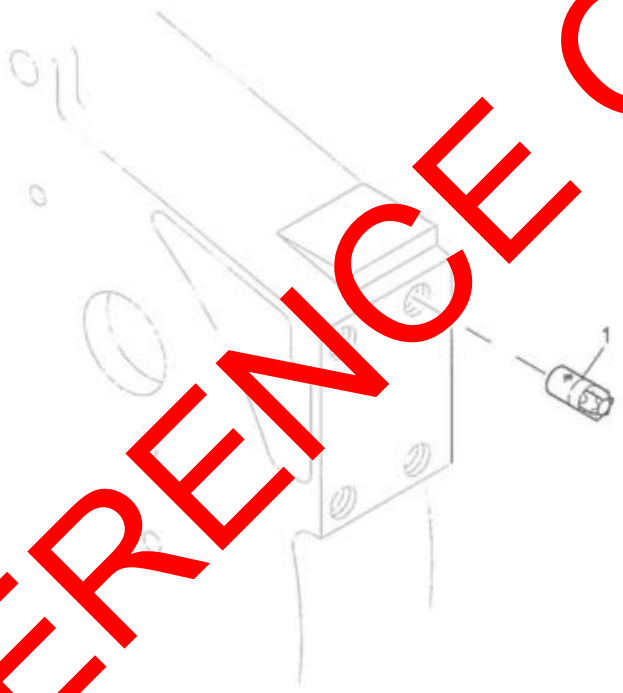
History

a.

3	3615A008		1	LIFTING BRACKET	

REFERENCE ONLY

ZCHR1175



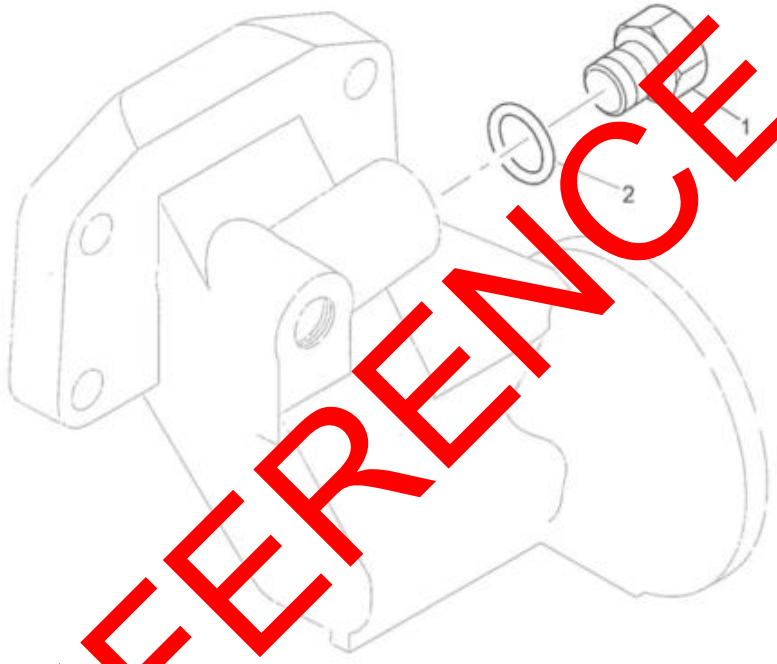
REFERENCE ONLY

Engine Mounts	Plate A
	ZCHR1175

Item	Part No.	References	Qty.	Description	Notes
1	3212V004		4	PLUG	

REFERENCE ONLY

Lubricating Oil Pressure Switch/Gauge	Plate A
	ZJHR0547



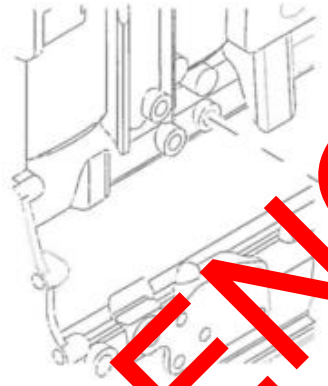
REFERENCE ONLY

Lubricating Oil Pressure Switch/Gauge	Plate A
	ZJHR0547

Item	Part No.	References	Qty.	Description	Notes
1	3278A004		1	PLUG	
2	2415H002		1	SEAL - SENSOR	

REFERENCE ONLY

Lubricating Oil Pressure Switch/Gauge	Plate B
	ZJHR0547



REFERENCE ONLY

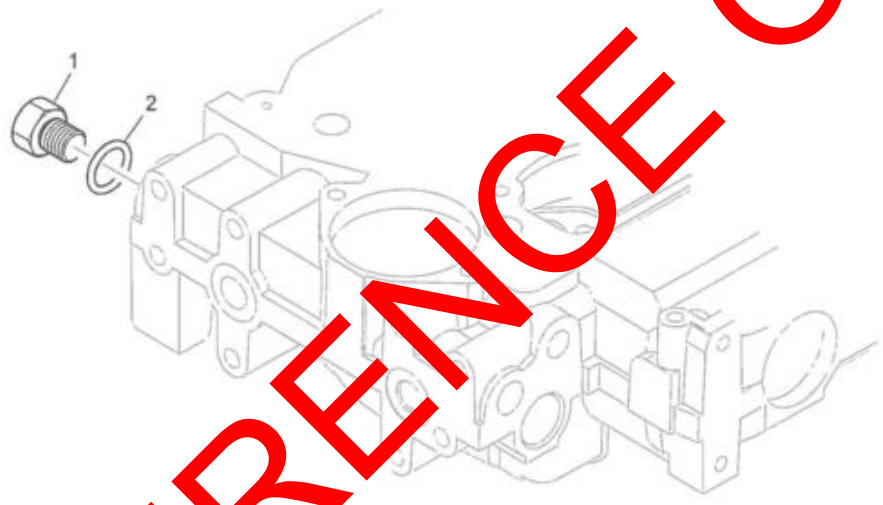
Lubricating Oil Pressure Switch/Gauge	Plate B
	ZJHR0547

Item	Part No.	References	Qty.	Description	Notes
1	2848062		1	OIL PRESSURE SWITCH	(A)

Footnotes	
(A)	OIL PRESSURE SWITCH

REFERENCE ONLY

ZLHR0360



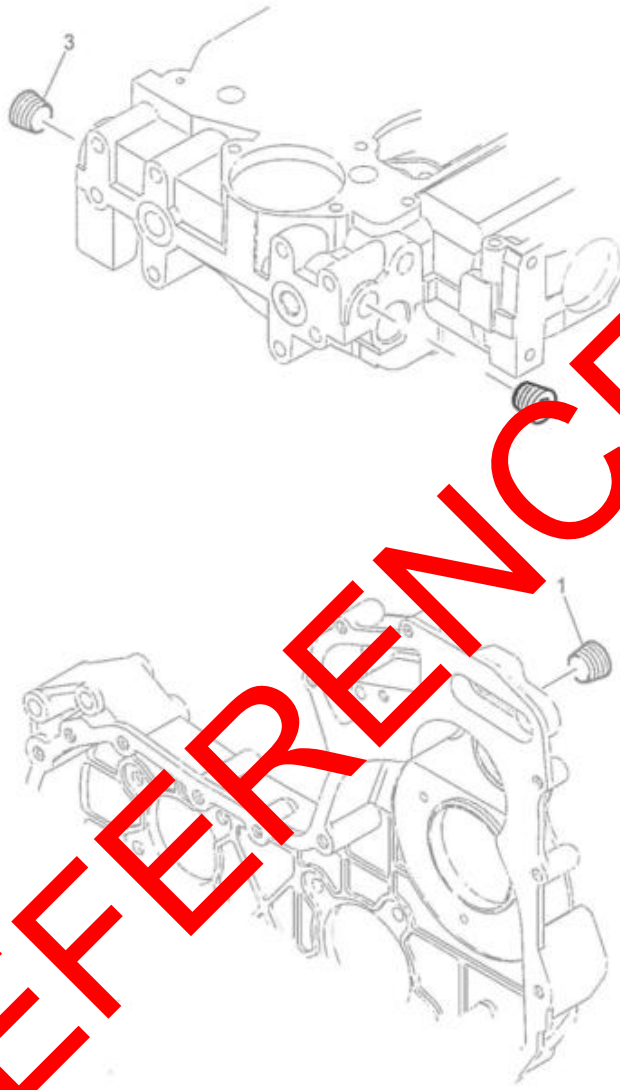
REFERENCE ONLY

Temperature Gauge & Sender	Plate A
	ZLHR0360

Item	Part No.	References	Qty.	Description	Notes
1	3278A006		1	PLUG	
2	2415H003		1	SEAL - SENSOR	

REFERENCE ONLY

ZZHR1012



REFERENCE ONLY

ZZHR1012

Item	Part No.	References	Qty.	Description	Notes
1	2431154		1	PLUG	
2	2431154		1	PLUG	
3	2431154		1	PLUG	

REFERENCE ONLY

Top Service Kit	Plate A
●○ SACR0001 ●○ SACR0350	SACR0350



REFERENCE ONLY

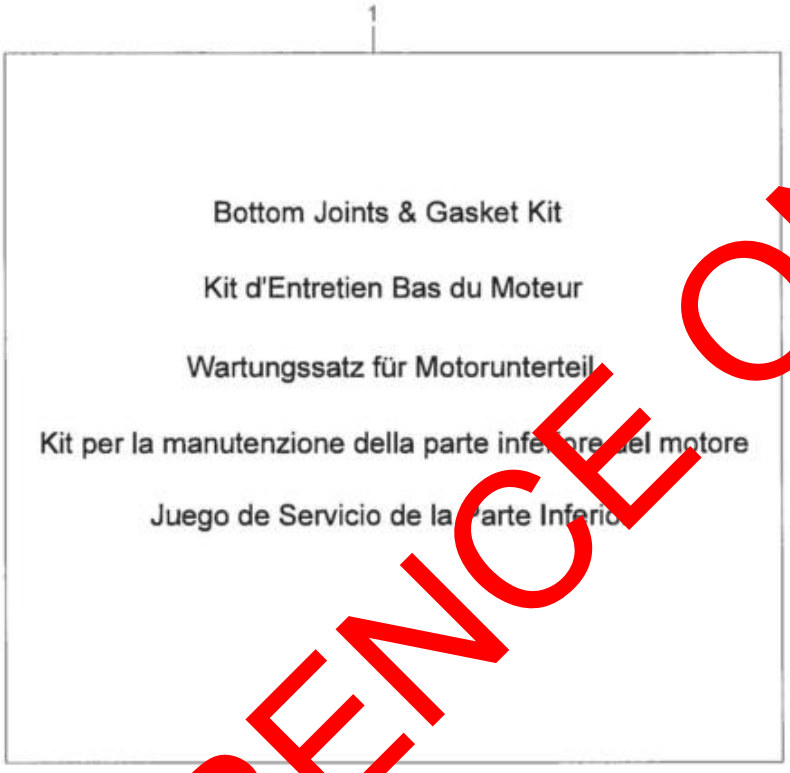
Top Service Kit	Plate A
SACR0001 SACR0350	SACR0350

Item	Part No.	References	Qty.	Description	Notes
1	U5LT0350		1	GASKET KIT - TOP	
2	—3681E051		1	GASKET - CYLINDER HEAD	
3	—3681A055		1	GASKET - CYL. HEAD COVER	
4	—2415H008		1	SEAL - WATER OUTLET	
5	—3681V512		1	GASKET - EXHAUST MANIFOLD	
6	—3684N503		1	GASKET	
7	—3688A035		1	GASKET	
8	—3688A029		1	GASKET - TURBOCHARGER	
9	—L311FF02		4	INJECTOR WASHER	
10	—3688A036		1	GASKET	
11	—2418M514		4	SEAL - VALVE STEM	(A)
12	—2418M519		4	VALVE STEM SEAL	(B)

Footnotes	
(A)	BROWN
(B)	GREEN

REFERENCE ONLY

Bottom Service Kit	Plate A
	SGBR0381



REFERENCE ONLY

Bottom Service Kit	Plate A
	SGBR0381

Item	Part No.	References	Qty.	Description	Notes
1	U5LB0381		1	BOTTOM JOINT AND GASKET	
2	—2415715		1	SEAL - O RING	
3	—36832137		1	GASKET	
4	—3617V015		1	GASKET - TIMING CASE	
5	—3617V016		1	GASKET - TIMING CASE	
6	—3681P047		1	GASKET - TIMING CASE COVER	
7	—26420348		1	SEAL - O RING	
8	—3688A041		1	GASKET - OIL FILTER HEAD	
9	—3688A039		1	GASKET - OIL FILTER HEAD	
10	—3682A011		1	GASKET - WATER PUMP	
11	—3688A035		1	GASKET	
12	—3685A033		1	GASKET - OIL COOLER	
13	—3685A025		1	GASKET - OIL COOLER	
14	—3681K037		1	GASKET - SUMP	

REFERENCE ONLY

REFERENCE ONLY

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	3347A041	99
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	4111A029	91
BANJO BOLT	3218R036	95, 95
BAR	3161C015	117
	3161C019	117
BEARING	3112D031	91
BIG END BEARING KIT	U5ME0013	15
	U5ME0026	15
BLANKING COVER	3753A071	65
BLANKING PLATE	3623A009	13
	4148K006	8[illegible]
BLOCK	3241N0[illegible]	69
BOLT	2[illegible]4H[illegible]51	[illegible]
	[illegible]137	69
BOTTOM JOIN[illegible] AND GASKET [illegible]T	U5L[illegible]381	133
BOWL	[illegible]656F837	111
BR[illegible]CKET	3641A007	29
	3653A017	35
	3733A011	115
	3824A081	99
BRIDGE PIECE	3627P041	47
CABLE	3161C017	37
CAMSHAFT	3141D222	27

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CAMSHAFT BUSH	3112D071	13
CAMSHAFT GEAR	3117N001	8[illegible]
CAP	2646E501	4[illegible]
	3342A011	23, [illegible]
	3[illegible]8A0[illegible]	[illegible]
	3788A0[illegible]3	53
CIRCLIP	[illegible]21332	17
	[illegible]722A022	25
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	2646E019	31
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	4115C312	11, 19
	4115C313	11, 19
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	3763A046	111
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REFERENCE ONLY

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	4142X312	53
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	3[illegible]8A012	23
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	3244A013	91
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FAN DRIVE PULLEY	3115C113	[illegible]
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FUEL FILTER	2656026	111
FUEL INJECTION PUMP	2644H00[illegible]	29
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	2644H042	29
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GASKET - IND MANIFOLD	3682A013	109
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REFERENCE ONLY

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	338[illegible]632	57
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	3751A241	33
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	3617A015	119
	3624A016	119
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