

RJ70531
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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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Contents

1. Introduction	Pg. 4
2. How To Use Your Parts Book	Pg. 4
3. Engine Breakdown	Pg. 5
4. Symbol Descriptions	Pg. 9
5. Parts Lists & Illustrations	Pg. 11
6. Parts Index	Pg. 14

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.

Section	Page	Section	Page
Short Engine ACE40004	11	Pick-Up Sensor AFHR4291	37
Cylinder Block & Liners ACHR0047	13	Pick-Up Sensor AFHR4291	39
Crankshaft, Main & Big End Bearings ACHR0047	15	Boost Control Pipe AFHR4291	41
Pistons & Rings ACHR0047	17	Fuel Leak-Off Pipe AFHR4291	43
Connecting Rods ACHR0047	19	Fuel Drive JBHR2349	45
Rear End Oil Seal ACHR0047	21	Sump GBHR2758	47
Cylinder Head Assembly ACHR0047	23	Dipstick & Filler Tube GBHR2758	49
Rocker Shaft Assembly ACHR0047	25	Oil Strainer GBHR2758	51
Timing Gear & Camshaft ACHR0047	27	Cylinder Head Cover HBHR2744	53
Fuel Injection Pump AFHR4291	29	Cylinder Head Cover HBHR2744	55
High Pressure Fuel Pipes AFHR4291	31	Breather HBHR2744	57
Atomisers AFHR4291	33	Blanking Plates HBHR2744	59
Throttle & Stop Controls AFHR4291	35	Oil Cooler JBHR2349	61

Engine Breakdown

Section	Page
Oil Filter JBHR2349	63
Blanking Plates JBHR2349	65
Oil Filter JDHR0023	67
Front End Drive Input KBHR0535	69
Water Pump LBHR2253	71
Water Pump LBHR2253	73
Pipes LBHR2253	75
Water Outlet Housing LDHR0702	77
Water Outlet Housing LDHR0702	79
Timing Case QCHR0024	81
Timing Case QCHR0024	83
Timing Cover QCHR0024	85
Blanking Plates QDHR1380	87

Section	Page
Blanking Plugs QDHR1380	89
Lubricating Oil Pump & Delivery Housing RBHR0029	91
Turbocharger SBHR1548	93
Feed Pipes SBHR1548	95
Leak-Off Pipes SBHR1548	97
Pipework & Connections SBHR1548	99
Exhaust Manifold SBHR1548	101
Air Charge Cooler TBHR0980	103
Air Charge Cooler TBHR0980	105
Air Charge Cooler TBHR0980	107
Pipework & Connections TBHR0980	109
Lift Pump VBHR2178	111

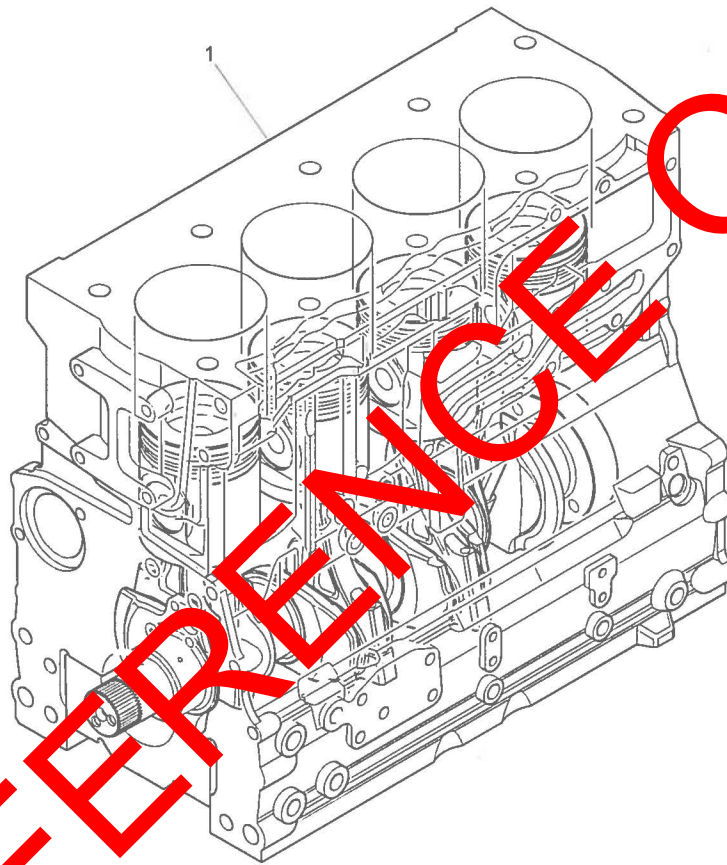
Section	Page
Filter to Injection Pump Pipe VBHR2178	113
Injection Pump to Filter Pipe VBHR2178	115
Heater Plugs WDHR0345	117
Engine Lifting Eyes XBHR0458	119
Engine Mounts ZCHR1175	121
Lubricating Oil Pressure Switch/Gauge ZJHR0547	123
Lubricating Oil Pressure Switch/Gauge ZJHR0547	125
Temperature Gauge & Sensor ZLHR0360	127
Miscellaneous & Auxiliaries ZZHR1012	129
Top Service Kit SAGR0350	131
Bottom Service Kit SGBR0351	133

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 History Section

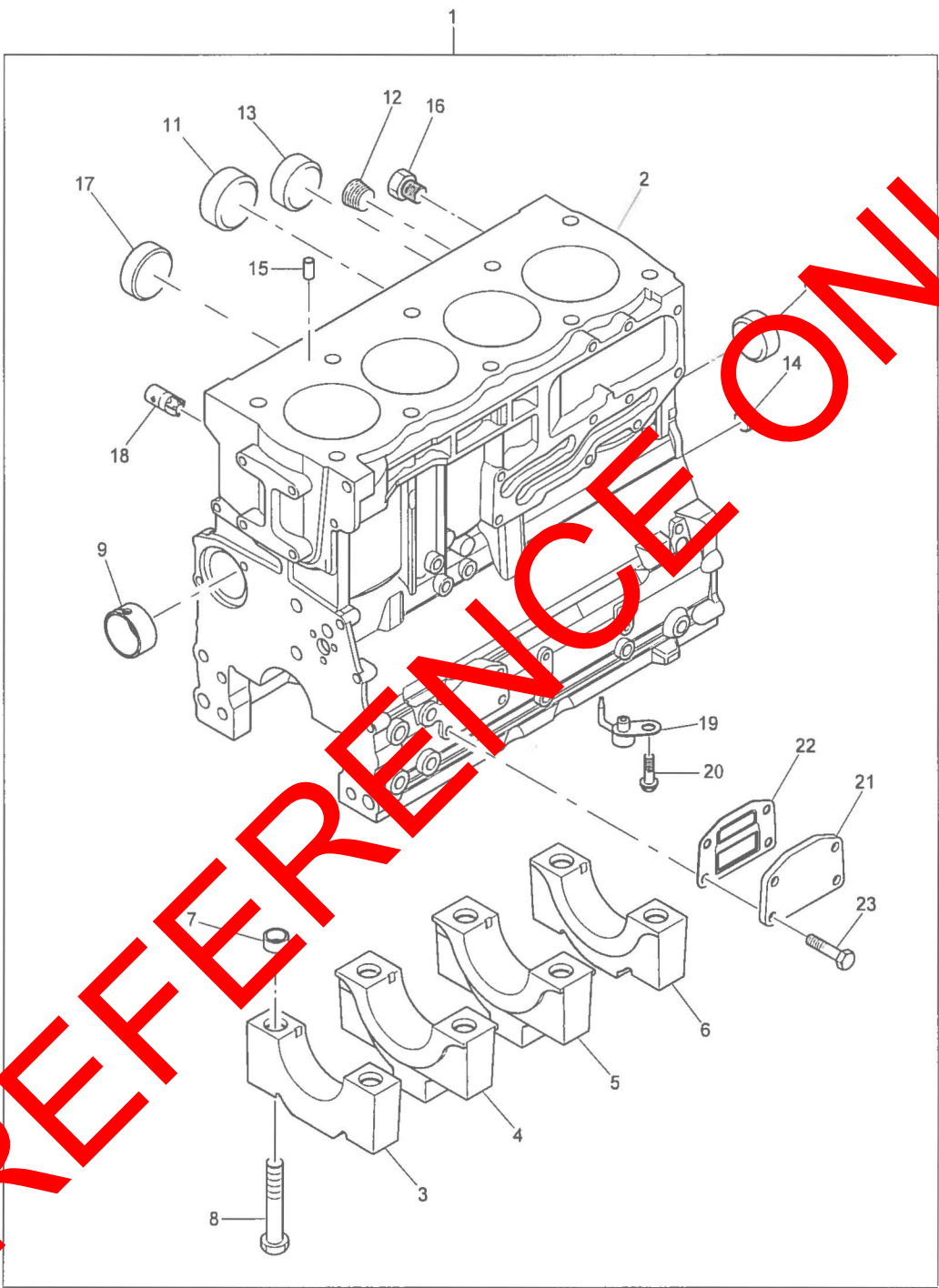
ACE40004



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	$\frac{+}{-}$ (+)0.50MM	4	PISTON AND RING KIT	(A)
5	4115P017	$\frac{+}{-}$ (+)1.00MM	4	PISTON AND RING KIT	(A)
Footnotes					
(A)	SERVICE BY COMPLETE ENGINE				

ACHR0047

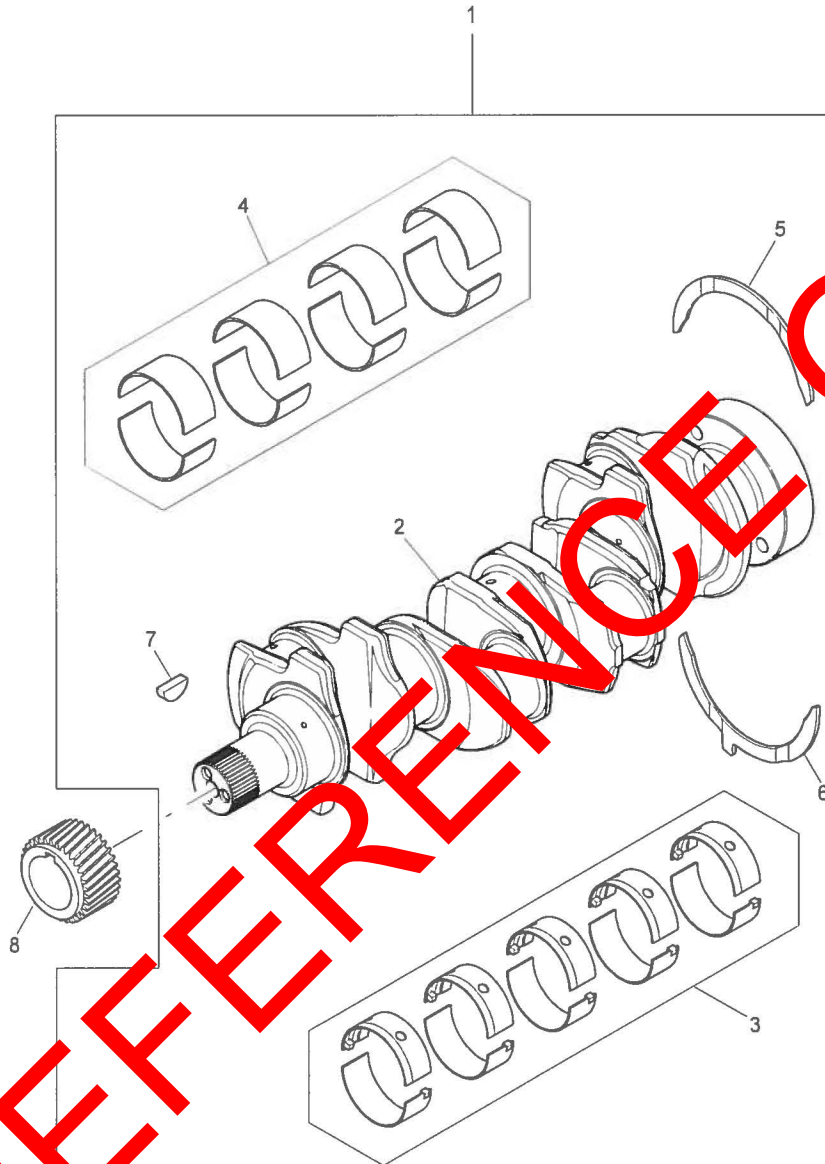


Cylinder Block & Liners	Plate A
	ACHR0047

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	

● PPL026421

ACHR0047



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 - 0.010"	
3	U5MB0018B	 (+)0.020"	1	MAIN BEARING KIT - 0.020"	
3	U5MB0018C	 (+) 0.030"	1	MAIN BEARING KIT - 0.030"	
5	31137312	 (+)0.007"	2	THRUST WASHER	
6	31137322	 (+)0.007"	2	THRUST WASHER	
History					
a.					
1	ZZ90222		1	CRANKSHAFT KIT	
4	—U5ME0013		1	BIG END BEARING KIT	

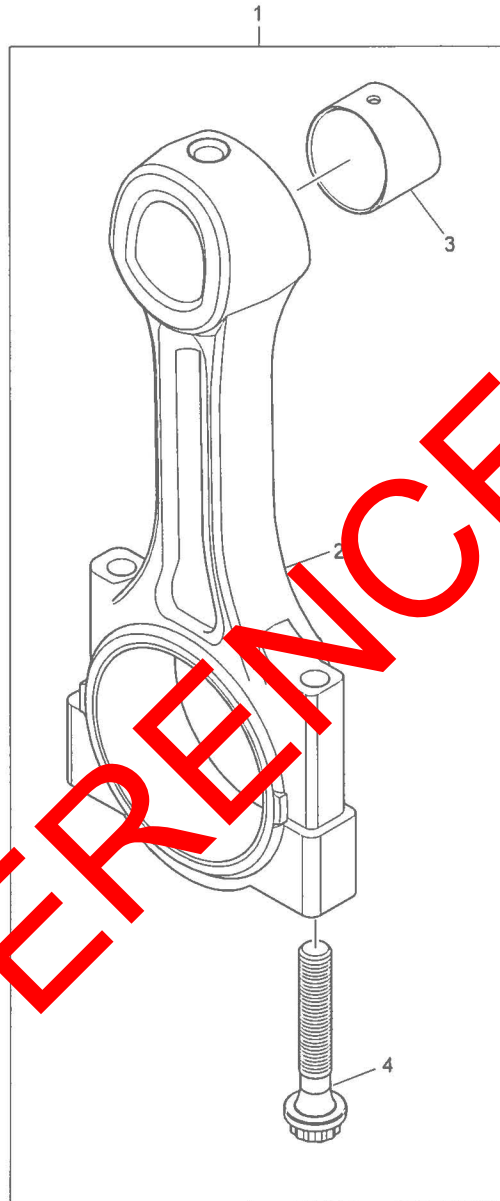
ACHR0047



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	$\frac{+}{-}$ (+)0.50MM	4	PISTON AND RING KIT	(A)
1	4115P017	$\frac{+}{-}$ (+)1.00MM	4	PISTON AND RING KIT	(A)
Footnotes					
(A)	SERVICE BY COMPLETE ENGINE				

ACHR0047

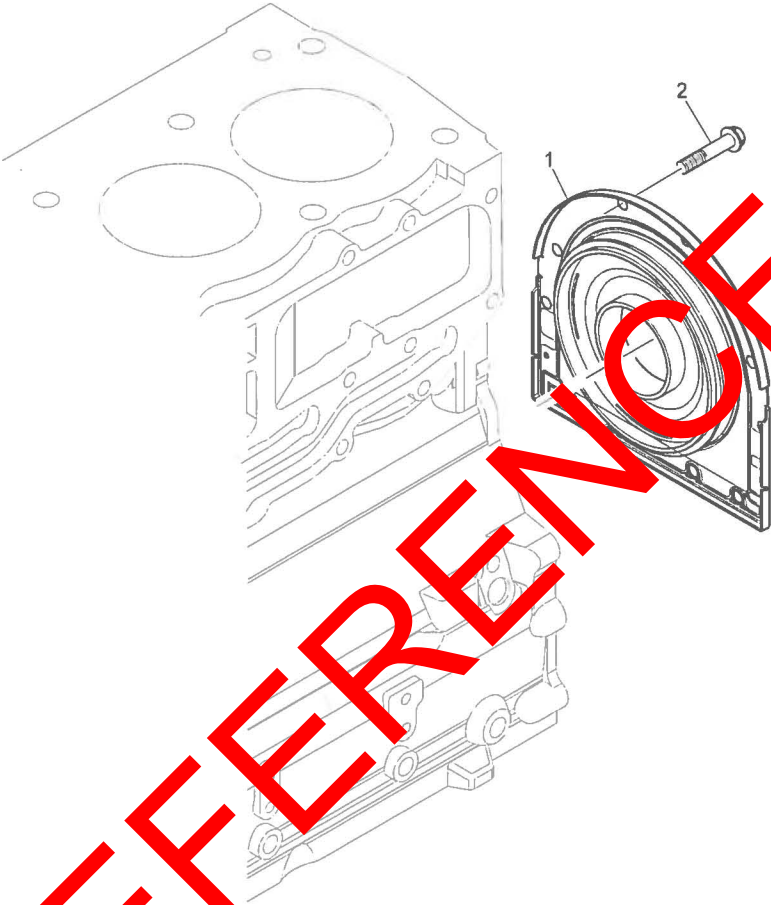


Connecting Rods	Plate A
	ACHR0047

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

ACHR0047

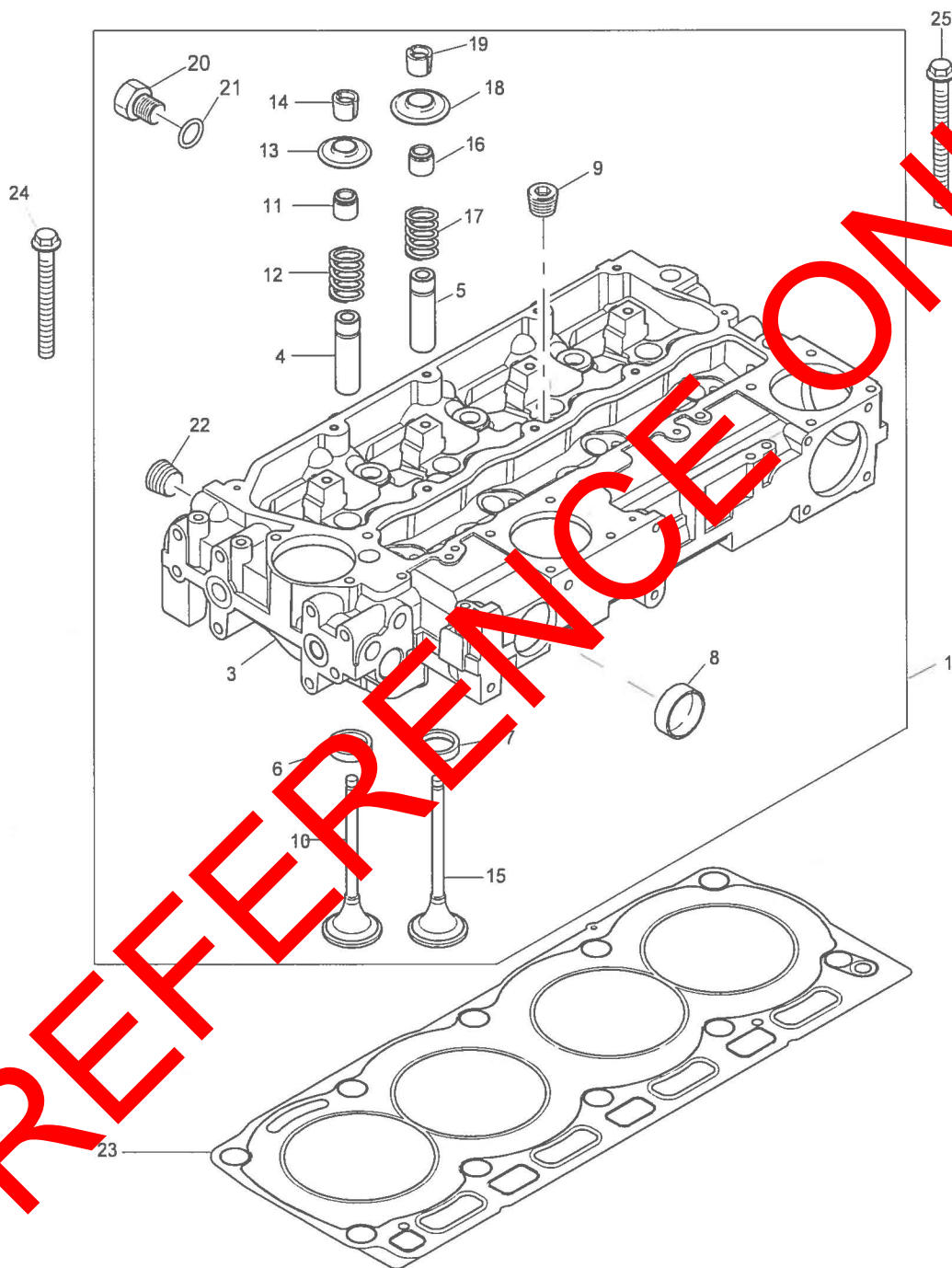


Rear End Oil Seal		Plate A
		ACHR0047

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

REFERENCE ONLY

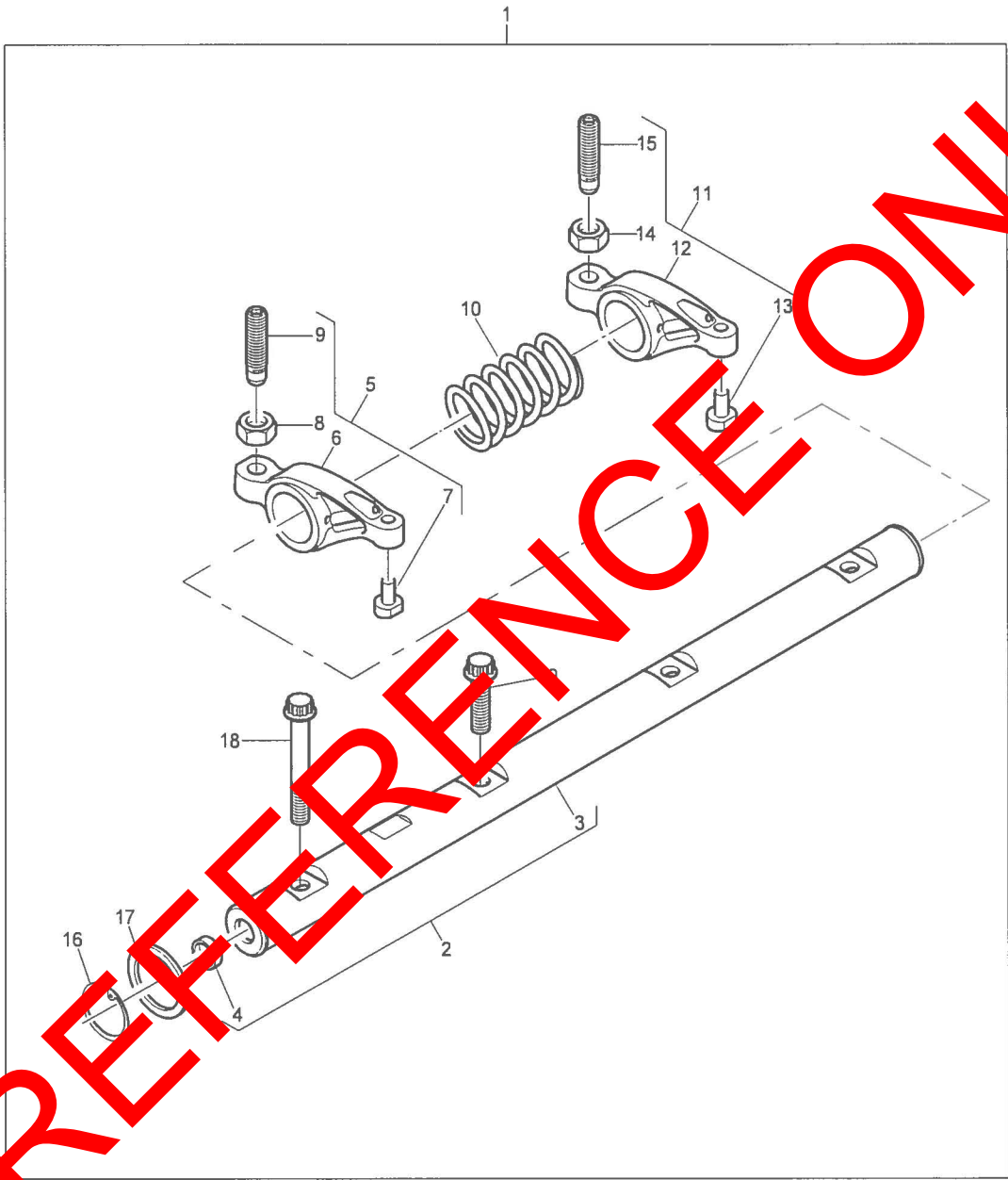
ACHR0047



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				

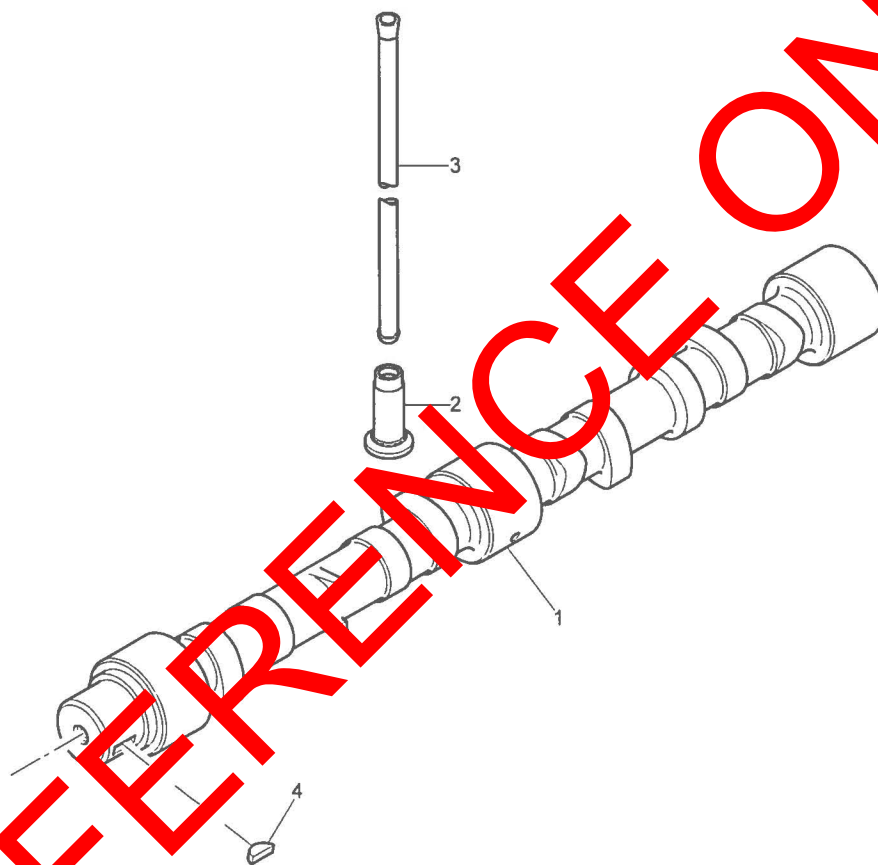
ACHR0047



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	SPRCLIP	
17	2134A502		2	WASHER	
18	2316A901		1	SCREW	
19	2316A902		2	SCREW	

ACHR0047

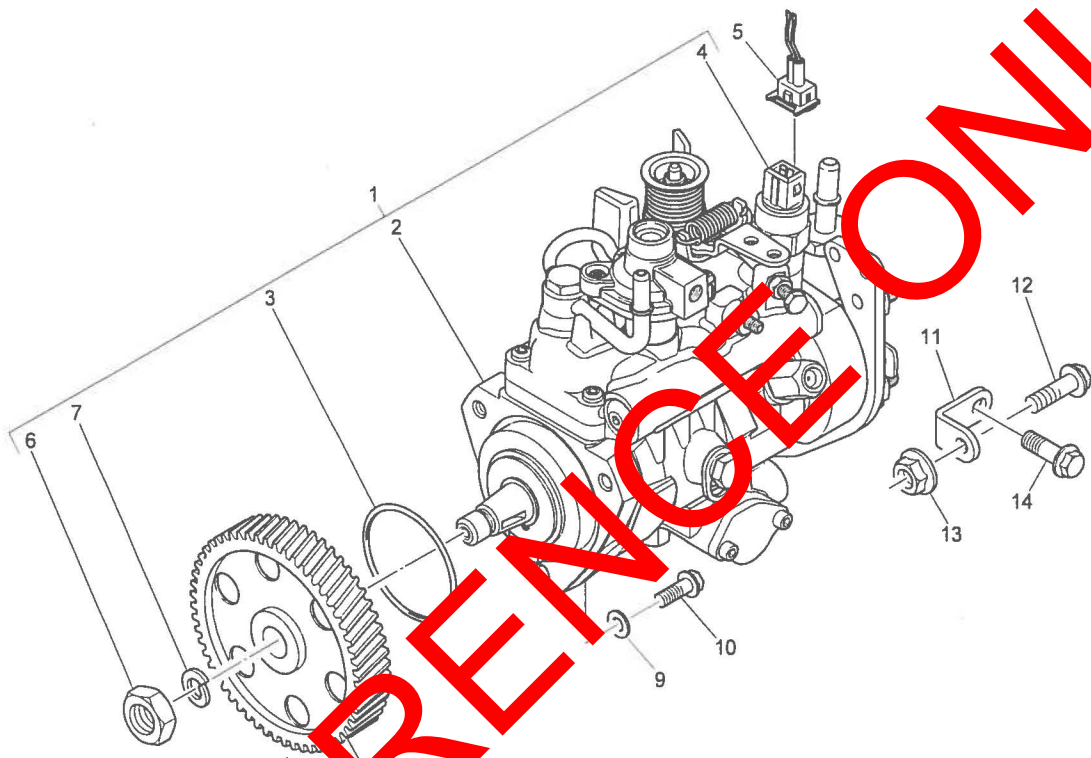


Timing Gear & Camshaft		Plate A
		ACHR0047

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

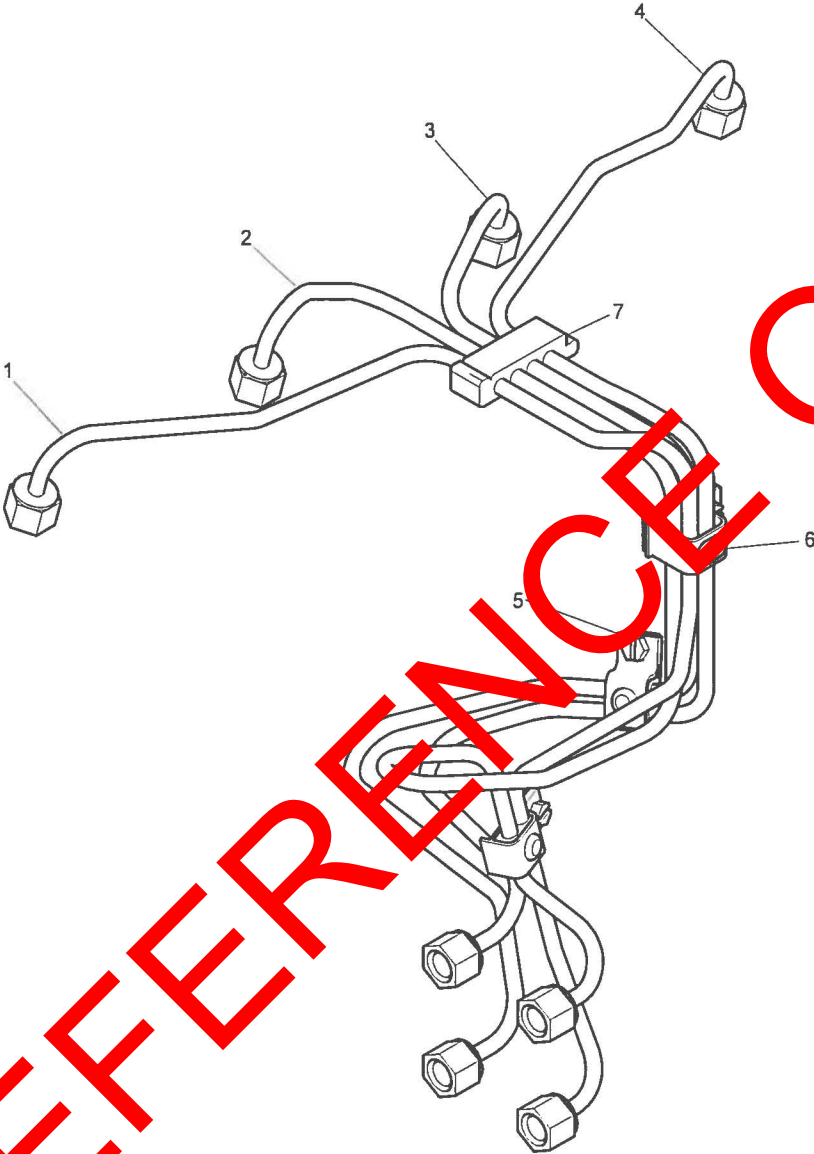
AFHR4291



Fuel Injection Pump		Plate A
		AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	2644H042	 a.	1	FUEL INJECTION PUMP	
		 b.			
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	

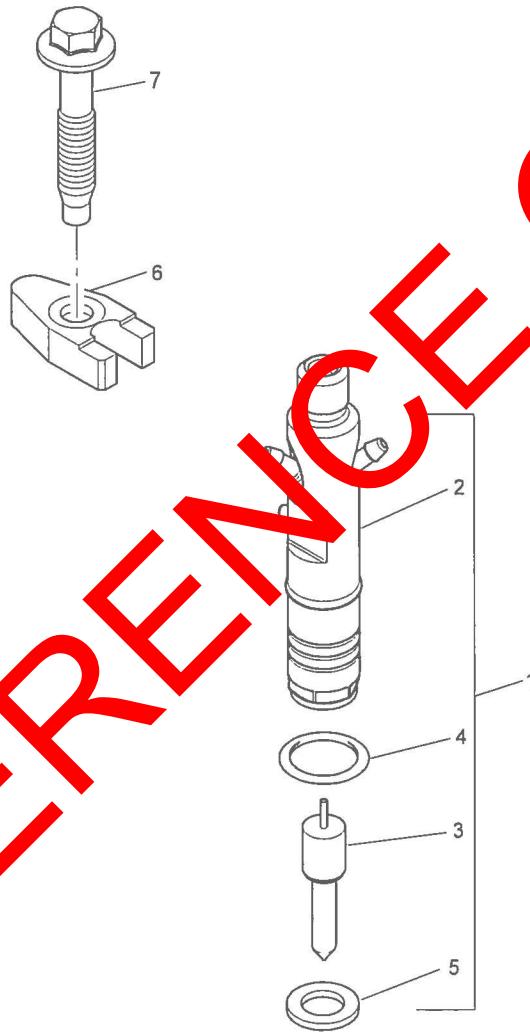
AFHR4291



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 1 CYL	
2	3525A062		1	PIPE - FUEL INJ NO 2 CYL	
3	3525A063		1	PIPE - FUEL INJ NO 3 CYL	
4	3525A064		1	PIPE - FUEL INJ NO 4 CYL	
5	2646E017		1	CLIP	

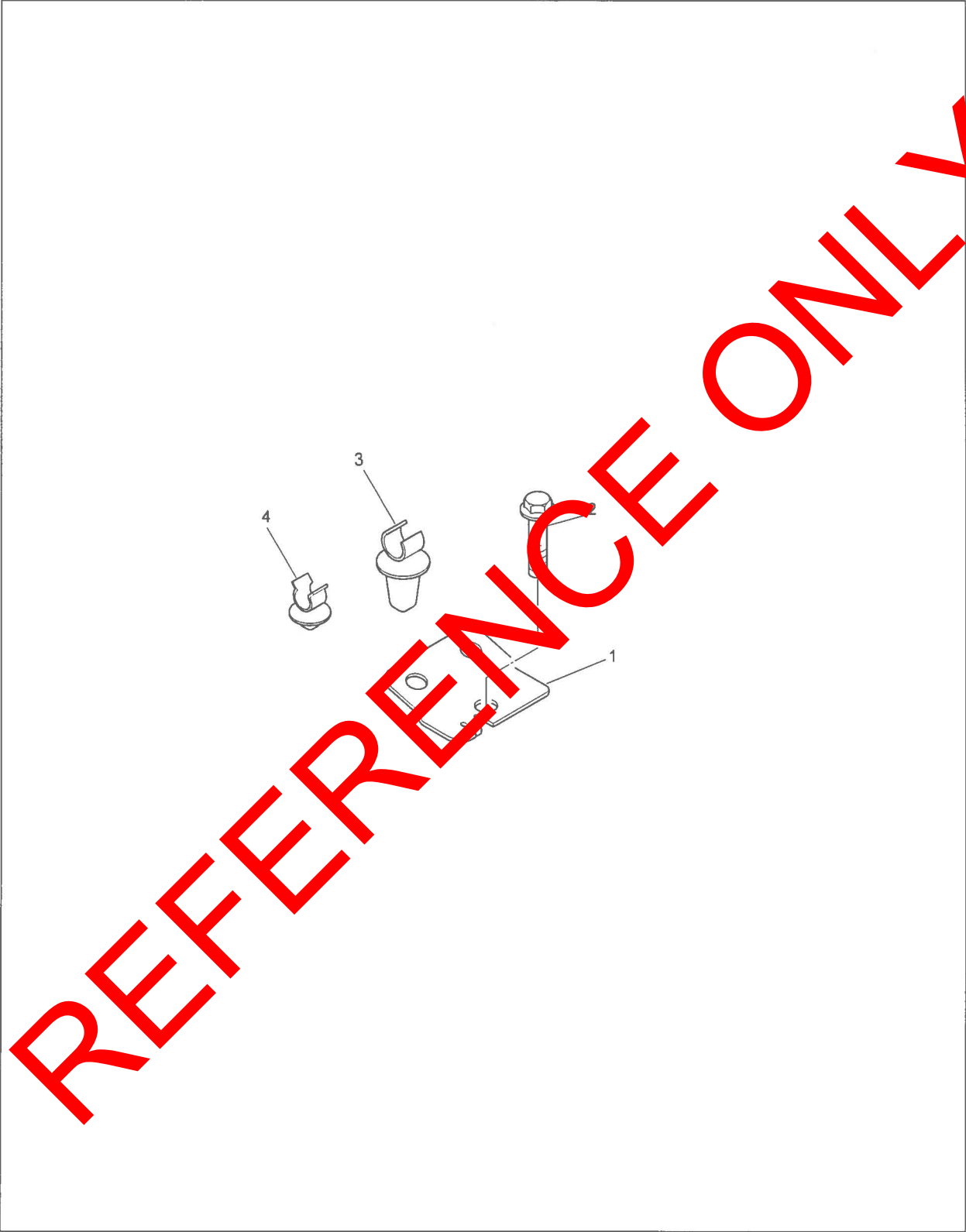
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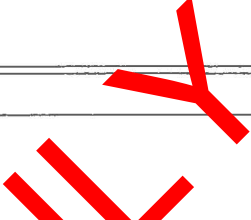
Atomisers	Plate A
	AFHR4291

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.	4	INJECTOR CLAMP	
		ⓑ b.			
7	2314W009	ⓐ b.	4	SCREW	
History					
a.					
6	3751A231		4	INJECTOR CLAMP	
b.					
6	3274A004		4	INJECTOR CLAMP	
7	2314W008		4	SCREW	

AFHR4291

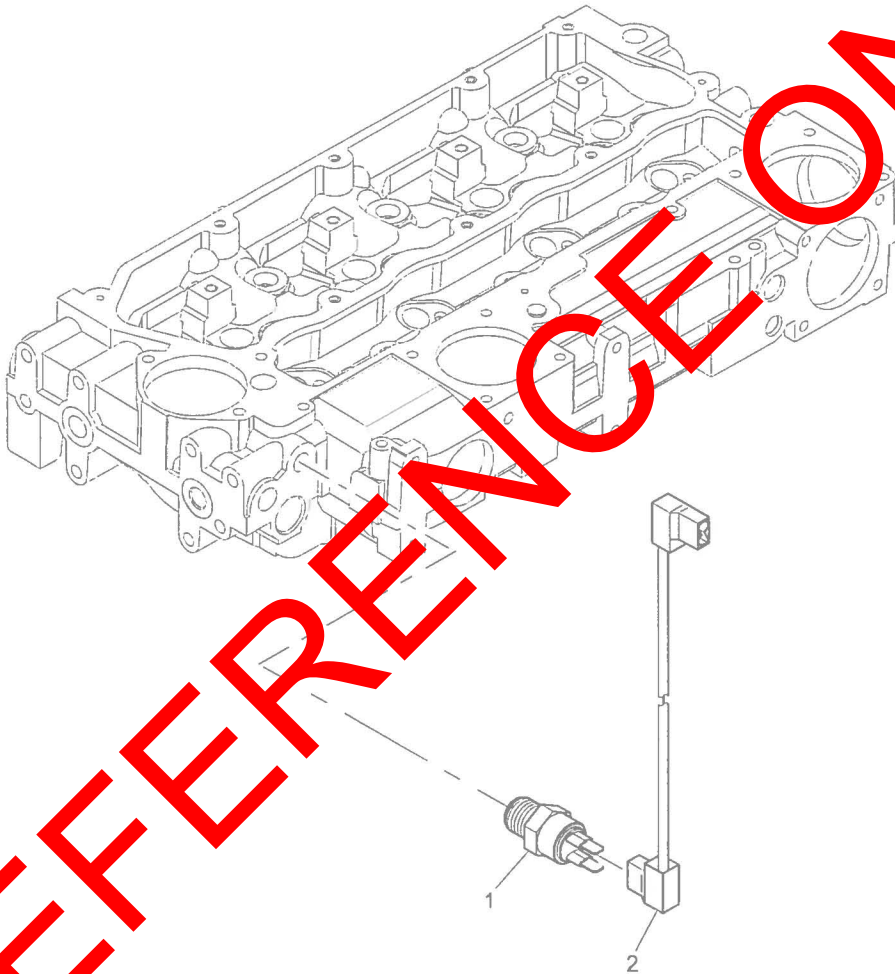


Throttle & Stop Controls		Plate A
		AFHR4291

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

REFERENCE ONLY

AFHR4291

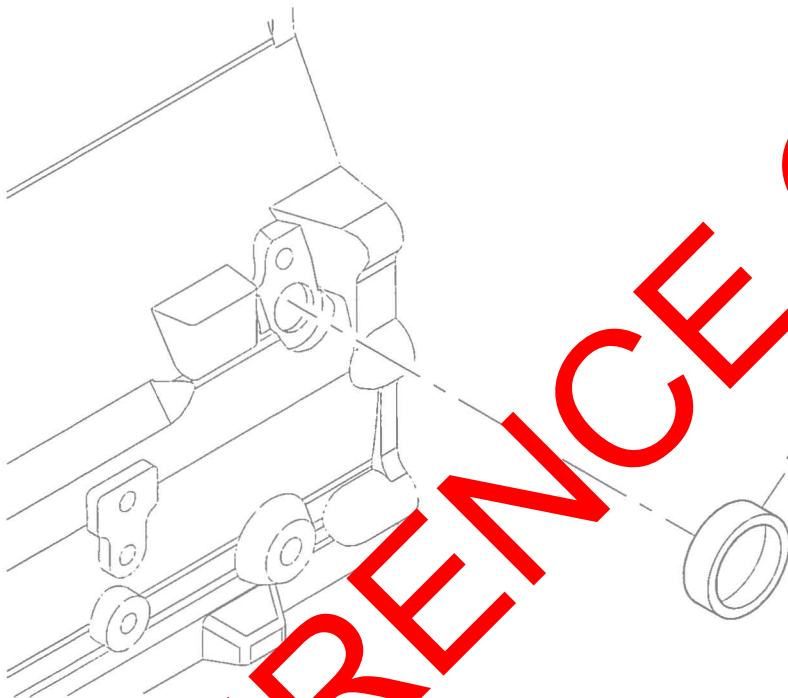


Pick-Up Sensor		Plate A
		AFHR4291

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 TEMPERATURE SENSOR	

AFHR4291

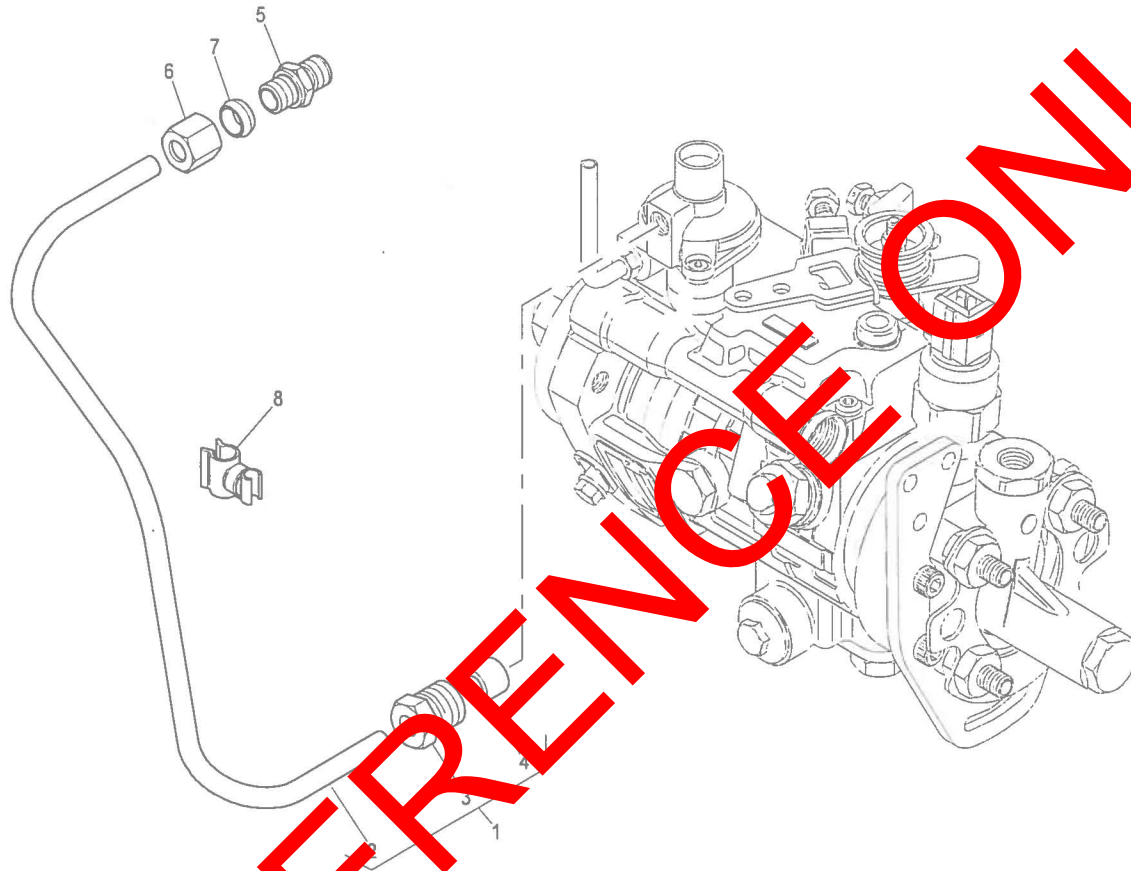


Pick-Up Sensor		Plate B
		AFHR4291

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

REFERENCE ONLY

AFHR4291

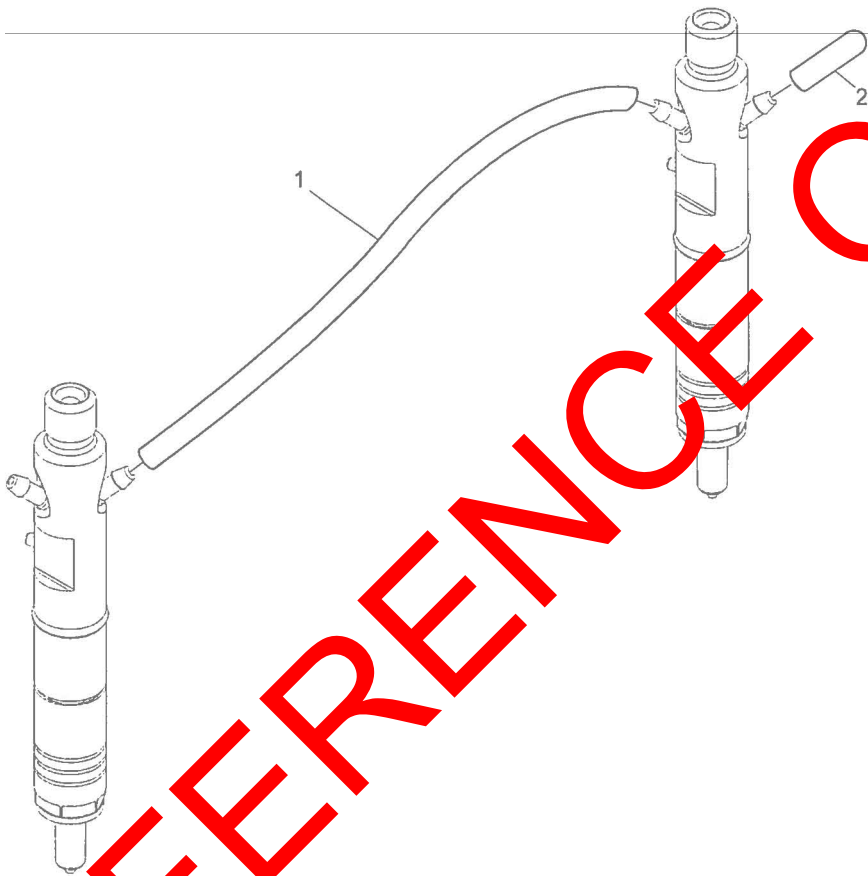


Boost Control Pipe		Plate A
		AFHR4291

Item	Part No.	References	Qty.	Description	Notes
1	4121A063	 a.	1	PIPE - BOOST	
2	3353D004 33811112	 4121A063	1	PIPE - BOOST	
3			1	UNION NUT	
4			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

AFHR4291

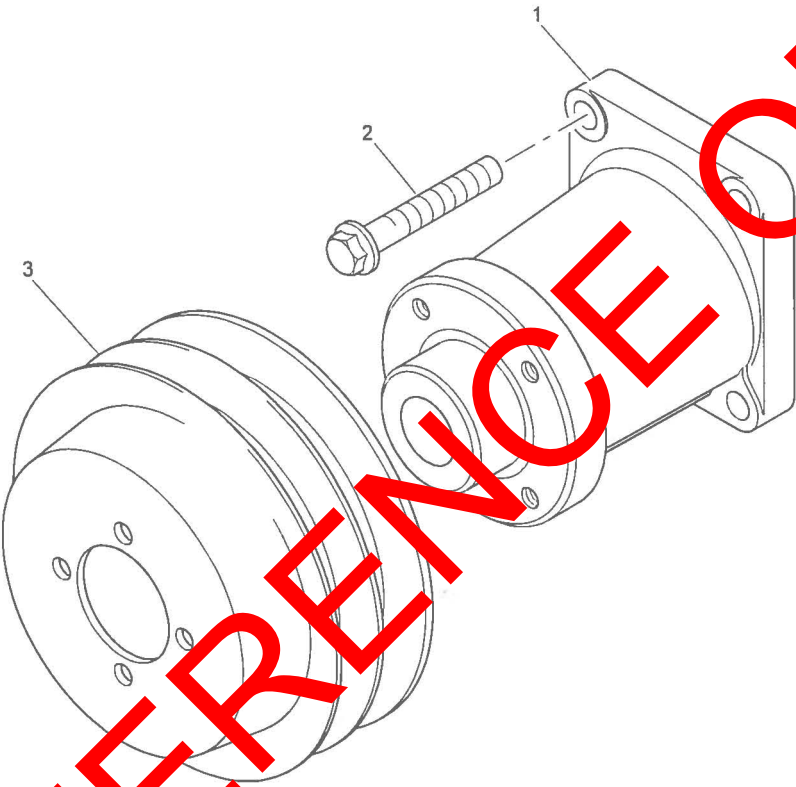


Fuel Leak-Off Pipe		Plate A
		AFHR4291

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

REFERENCE ONLY

FBHR0895

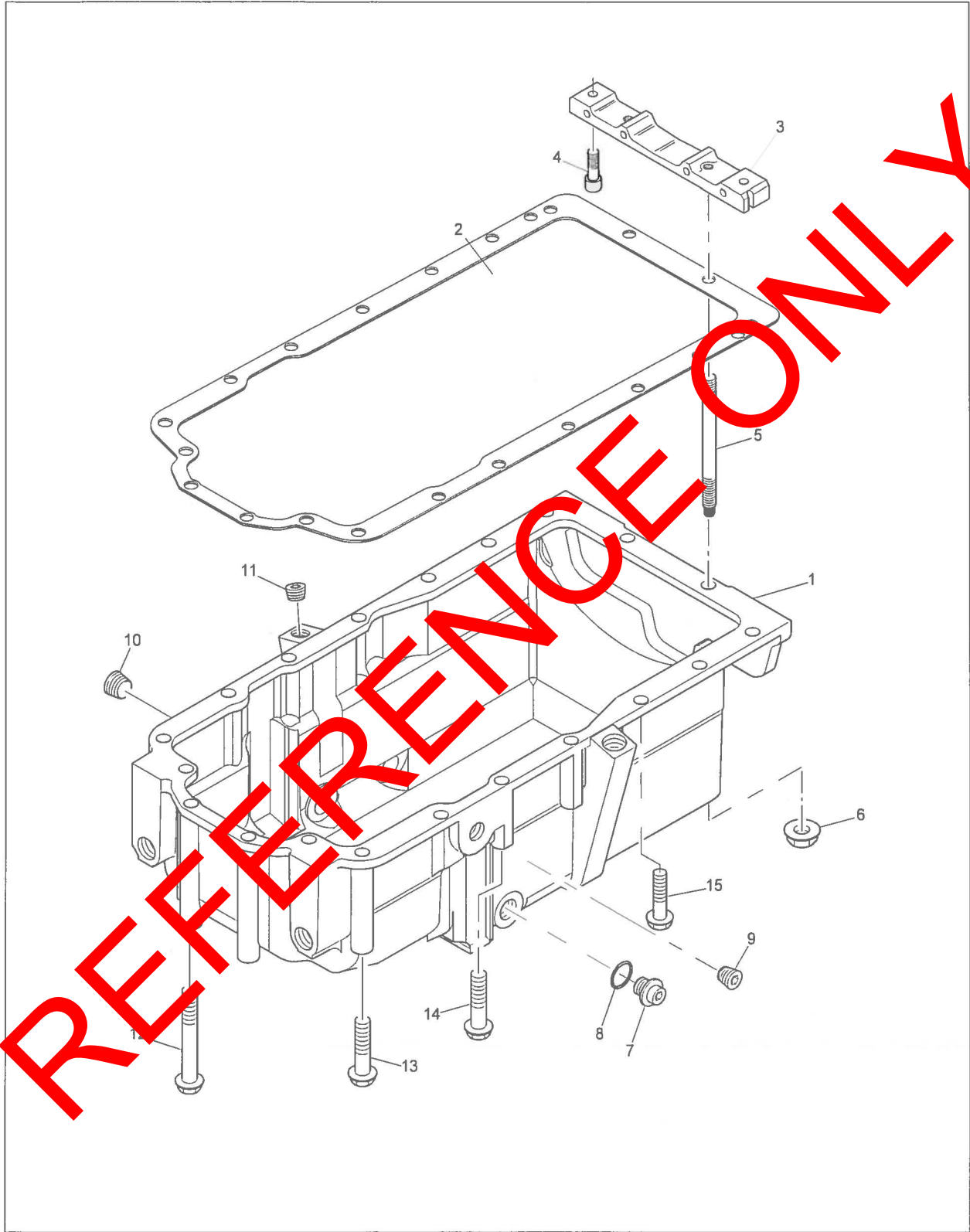


Fan Drive		Plate A
		FBHR0895

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

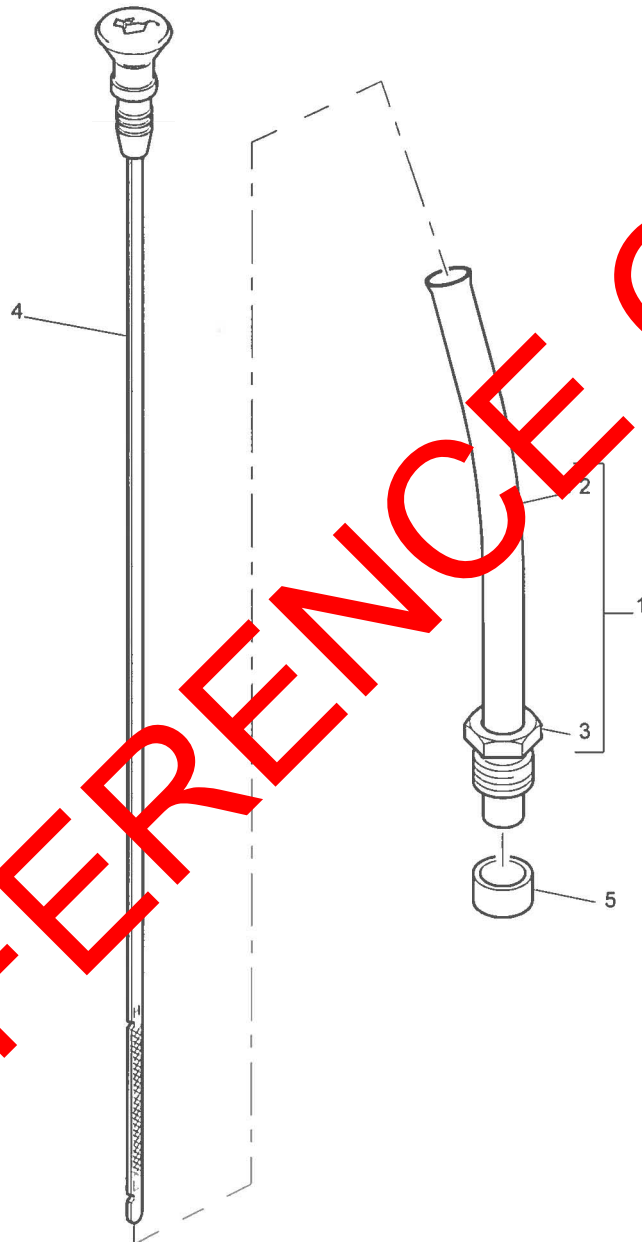
GBHR2758



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	

GBHR2758

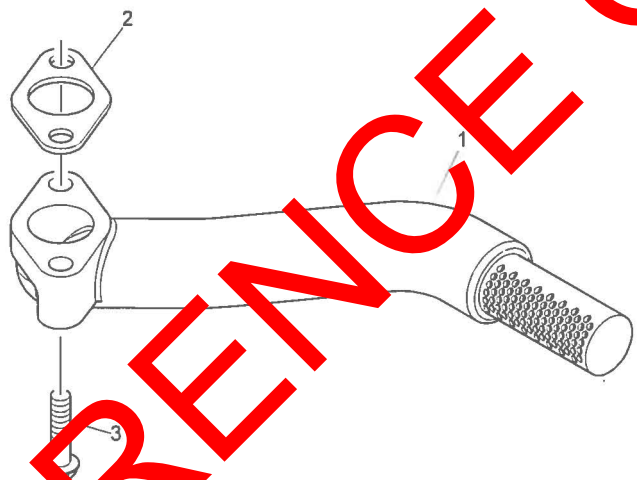


Dipstick & Filler Tube		Plate A
		GBHR2758

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

REFERENCE ONLY

GBHR2758

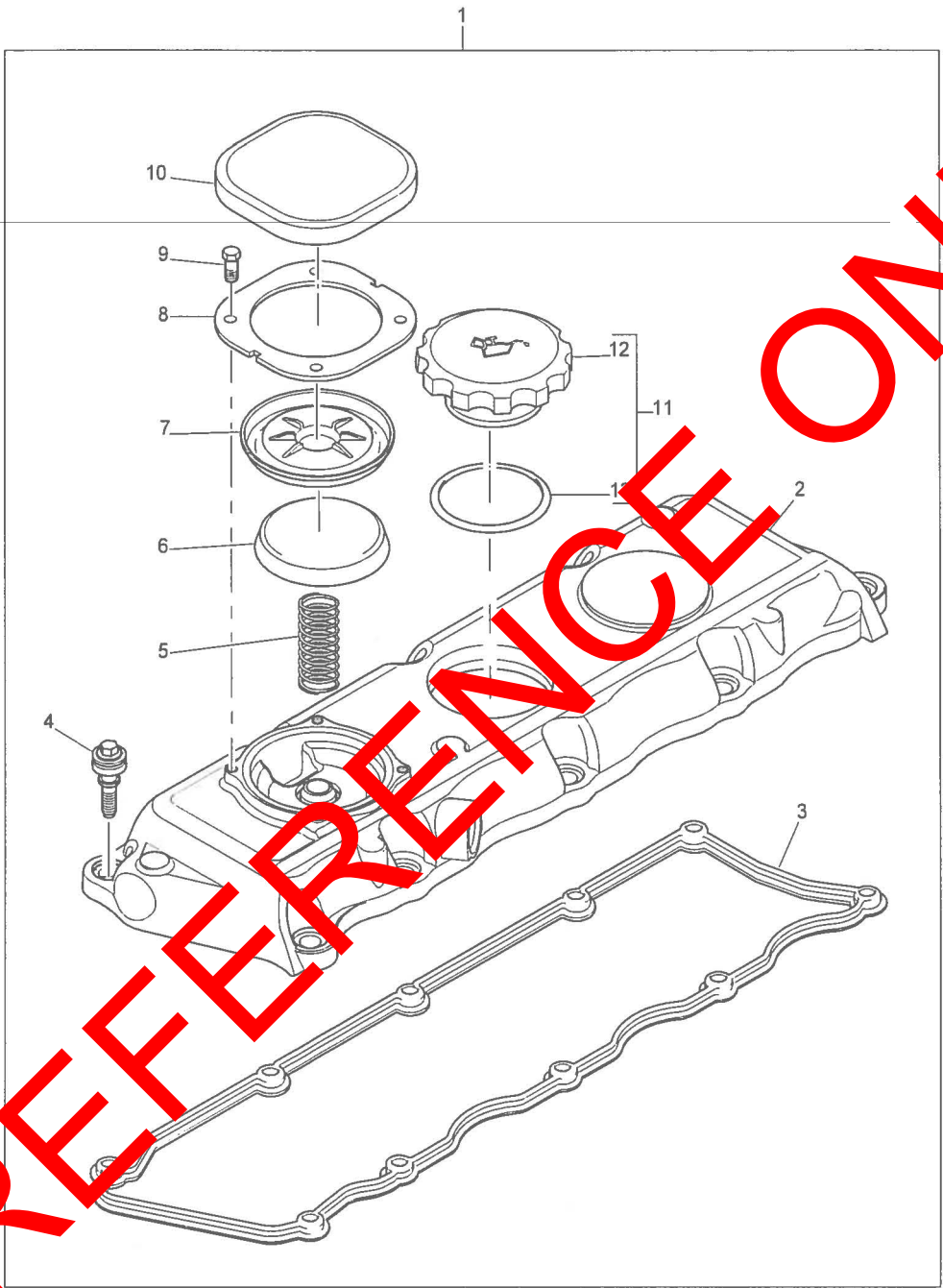


Oil Strainer		Plate A
		GBHR2758

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

REFERENCE ONLY

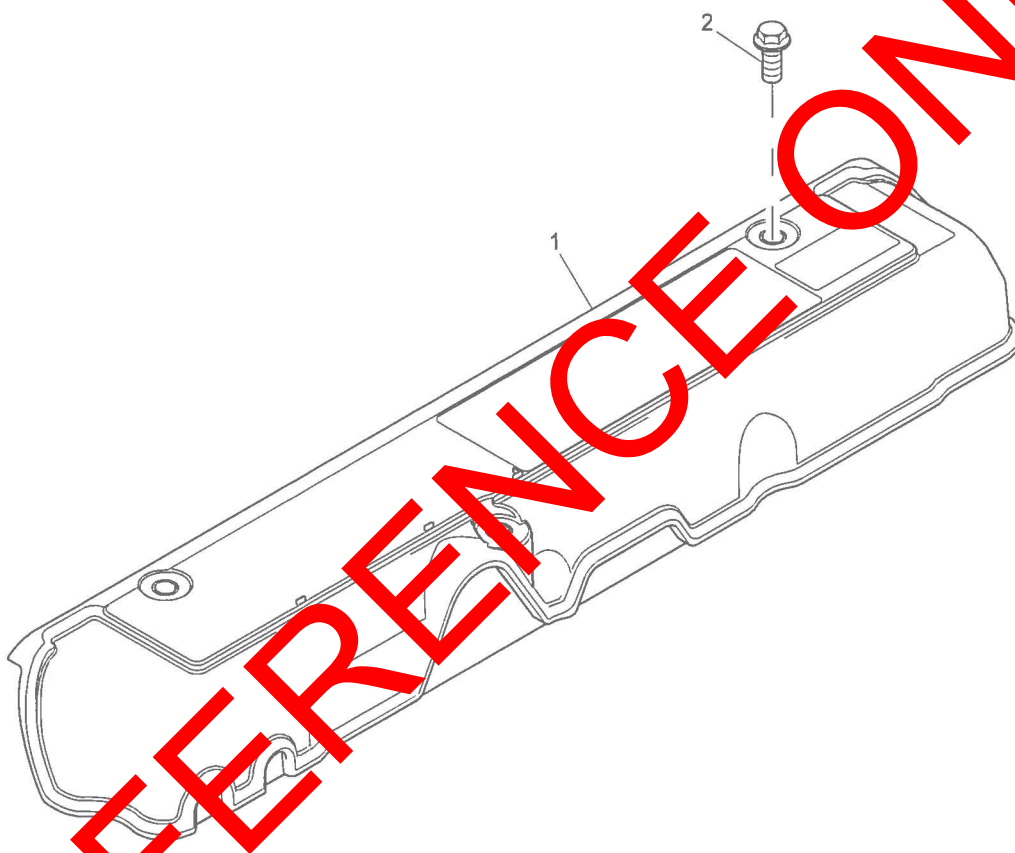
HBHR2744



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 - CRING	
History					
a.					
1	4142X292		1	CYL HEAD COVER ASSY	

HBHR2744

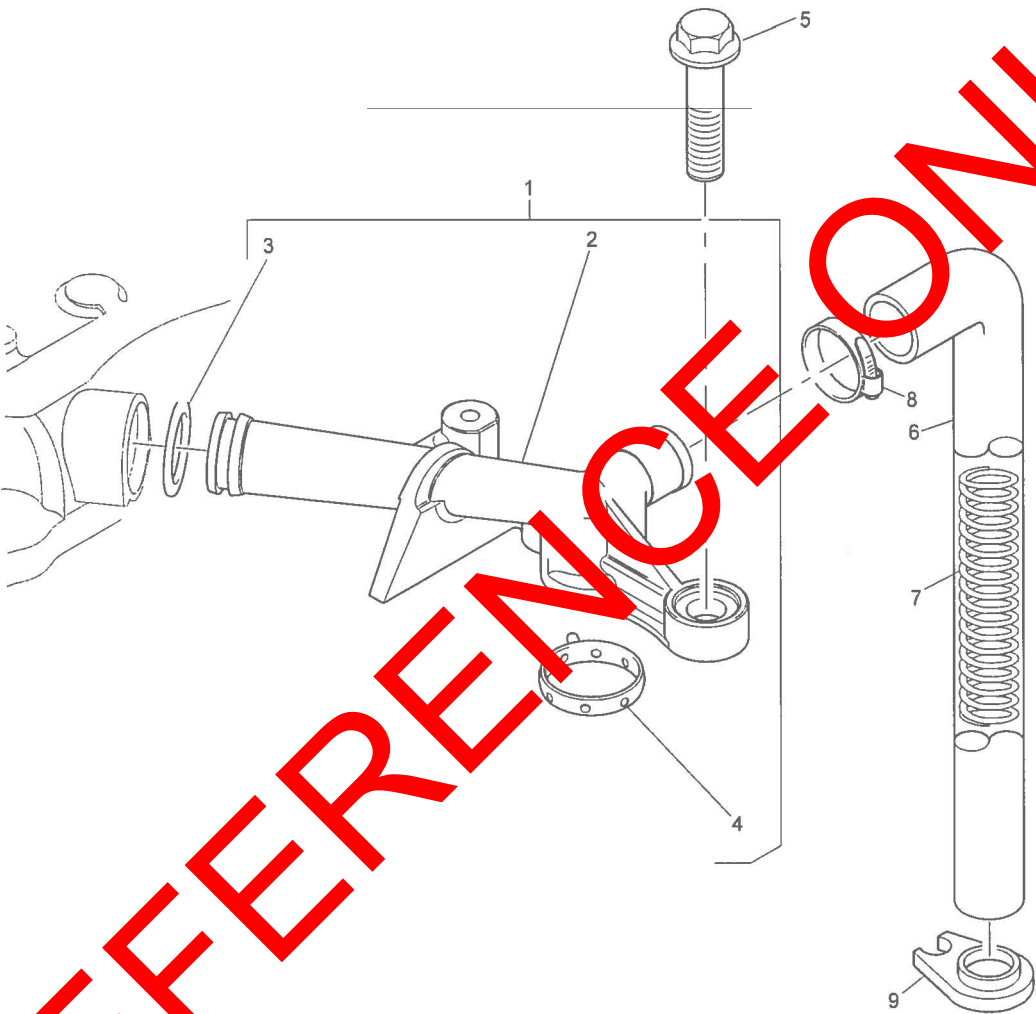


Cylinder Head Cover		Plate B
		HBHR2744

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

REFERENCE ONLY

HBHR2744



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 - BREATH	
	2161A011		2	SCREW	

HBHR2744



REFERENCE ONLY

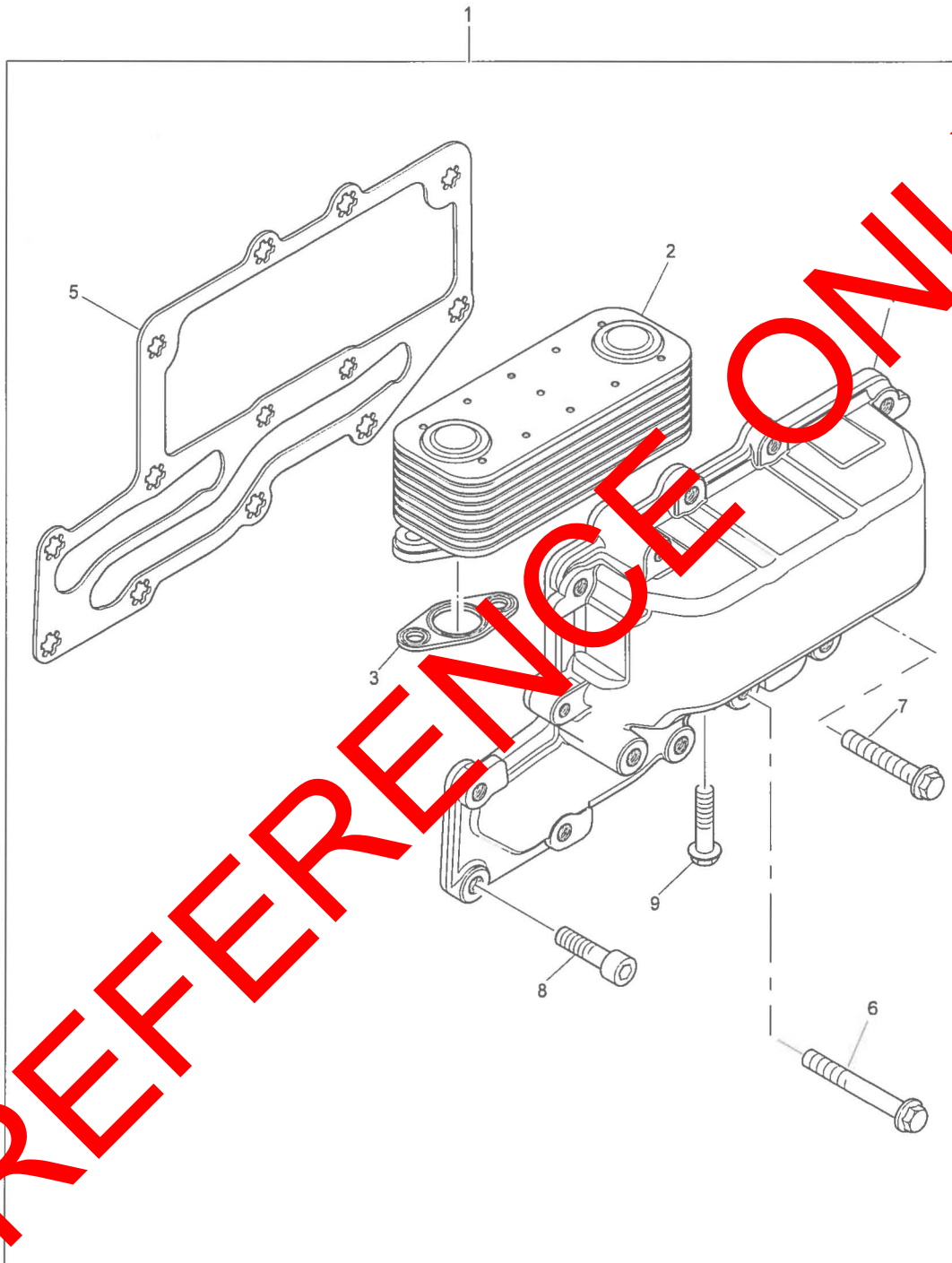
Blanking Plates		Plate A
		HBHR2744

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

REFERENCE ONLY

● PPL026084

JBHR2349

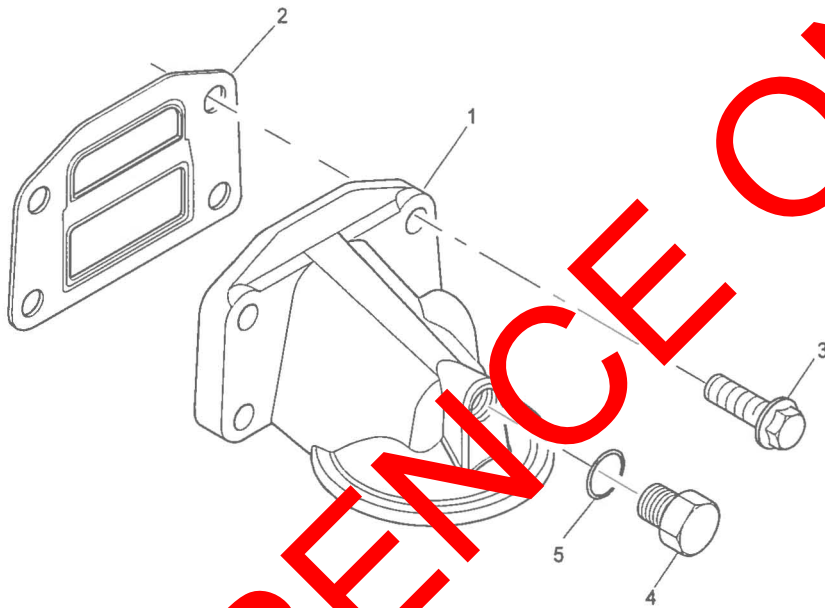


Oil Cooler		Plate A
PPL026084		JBHR2349

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

JBHR2349

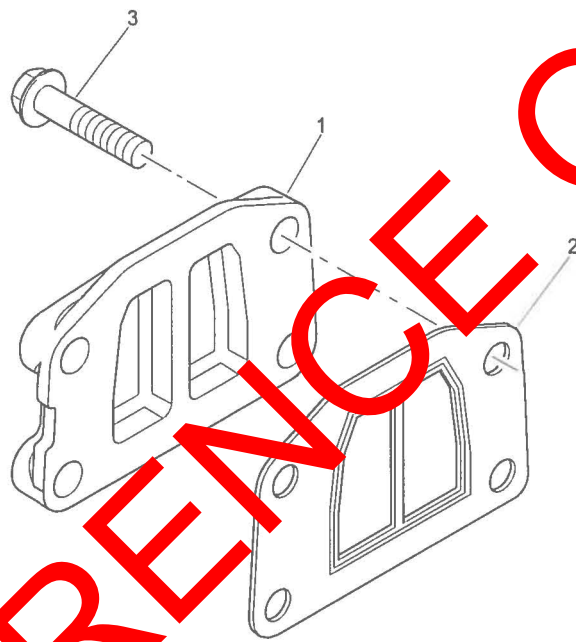


Oil Filter	Plate A
	JBHR2349

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

JBHR2349

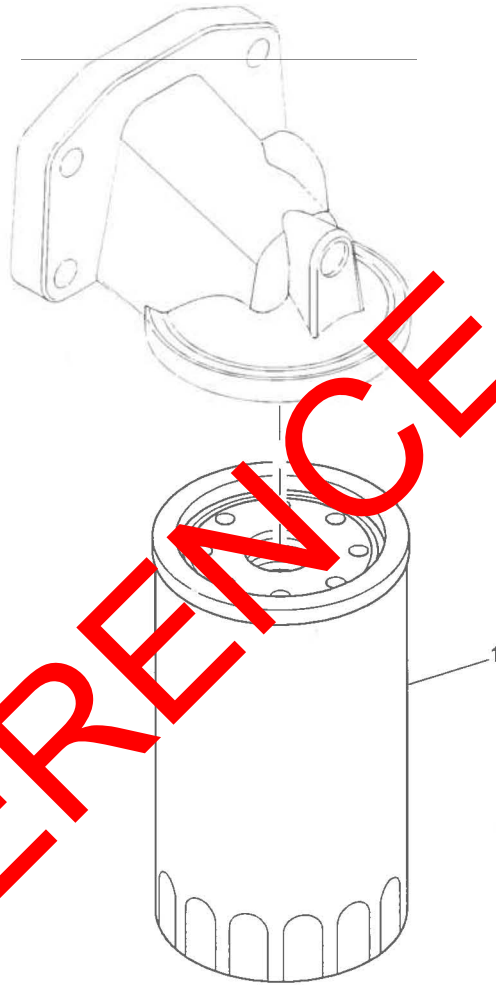


Blanking Plates		Plate A
		JBHR2349

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

JDHR0023



Oil Filter		Plate A
		JDHR0023

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

REFERENCE ONLY

KBHR0535

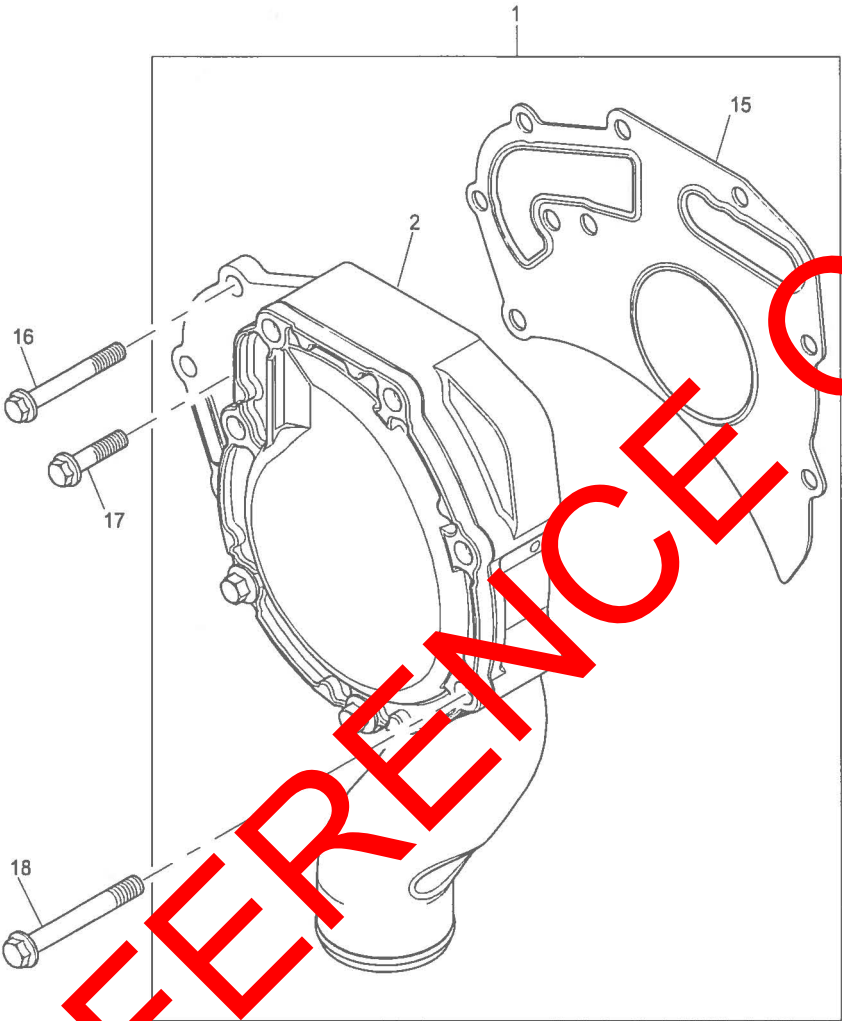


Front End Drive Input		Plate A
		KBHR0535

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

REFERENCE ONLY

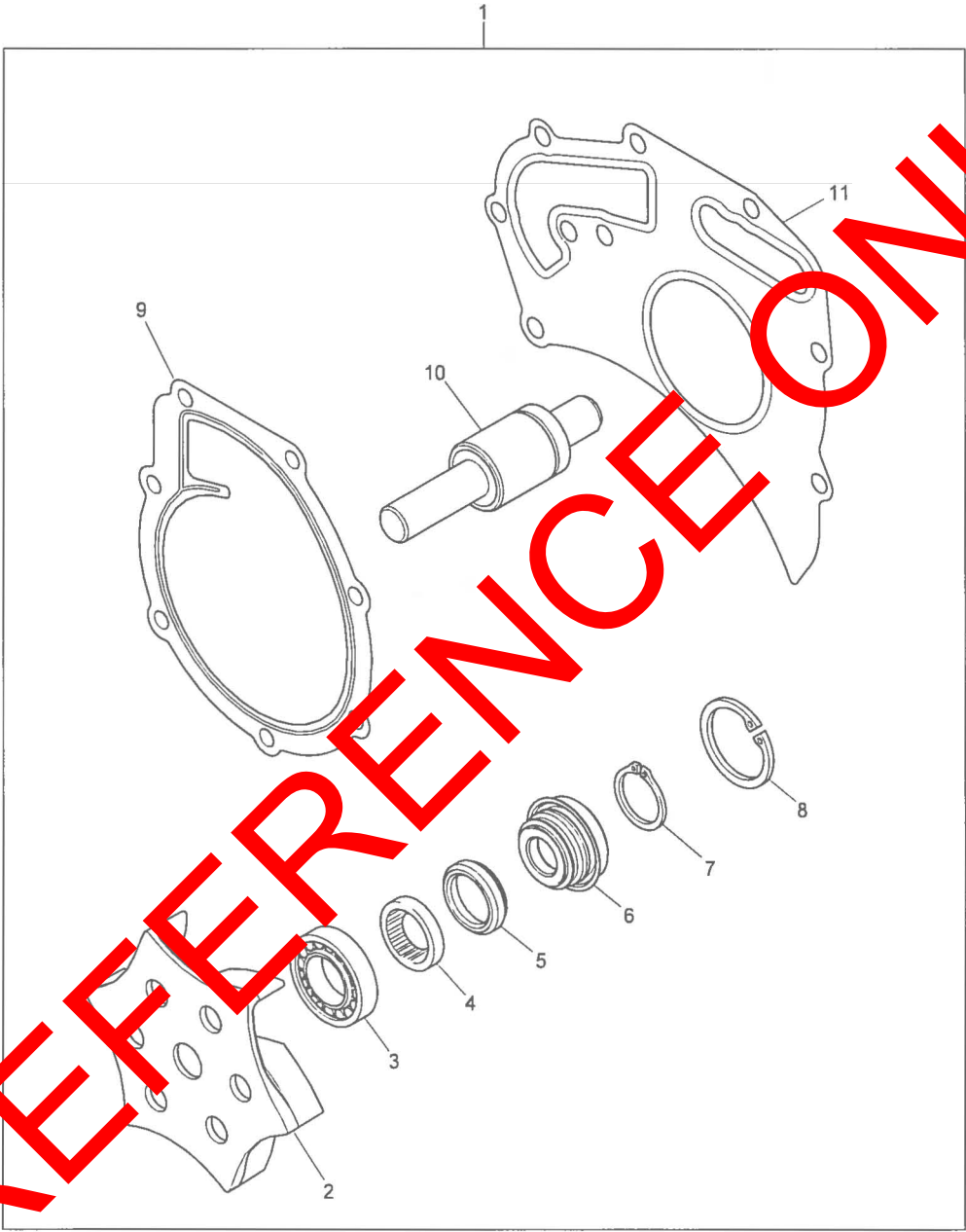
LBHR2253



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 BEARING	
12		⇒ U7LW0172	1	OIL SEAL	
13		⇒ U7LW0172	1	BEARING	
14	24880232		1	WATER PUMP GEAR	
15	3682A011		1	GASKET WATER PUMP	(A)
16	2314K164		2	SCREW	
17	2314H005		2	SCREW	
18	2314H012			SCREW	
Footnotes					
(A)	ALSO INCLUDED IN REPAIR KIT U7LW0172				

LBHR2253

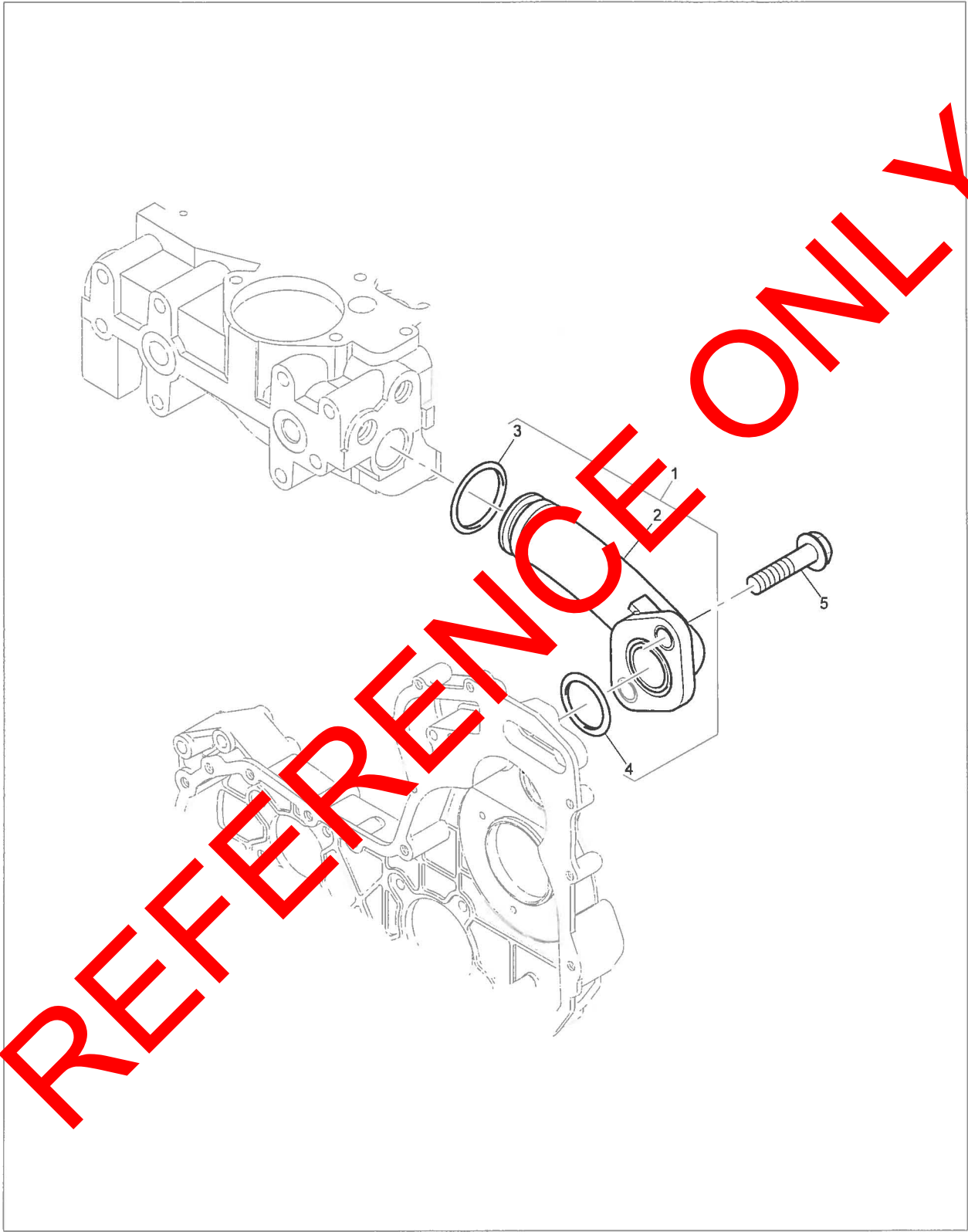


Water Pump	Plate B
	LBHR2253

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



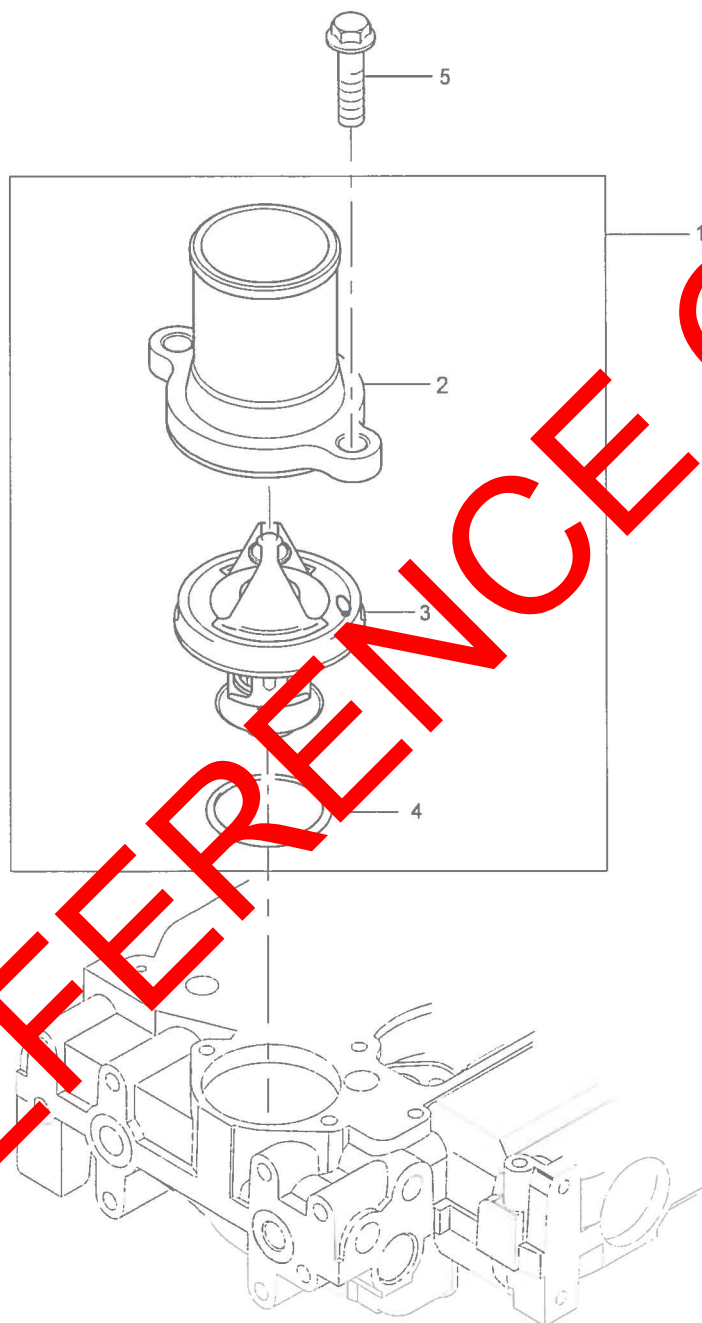
Pipes	Plate A
	LBHR2253

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

→ 31/01/2004

LDHR0702



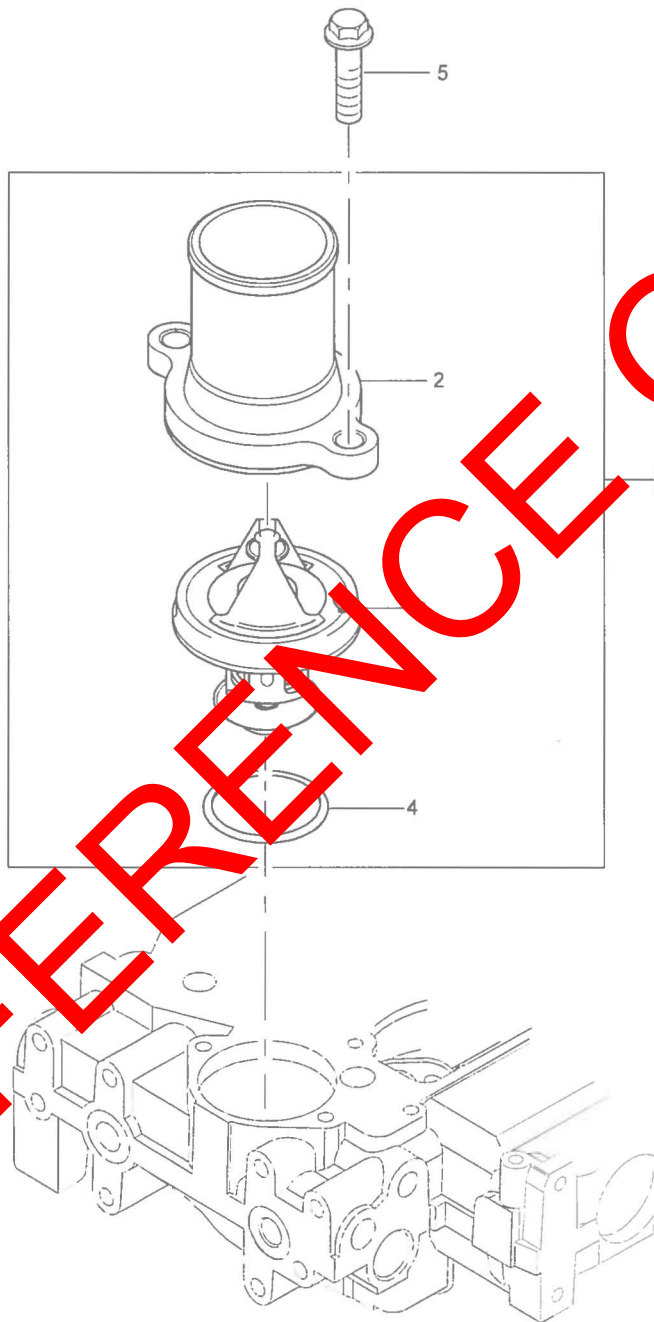
Water Outlet Housing		Plate A
→ 31/01/2004	LDHR0702	

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

→ 01/02/2004

LDHR0702

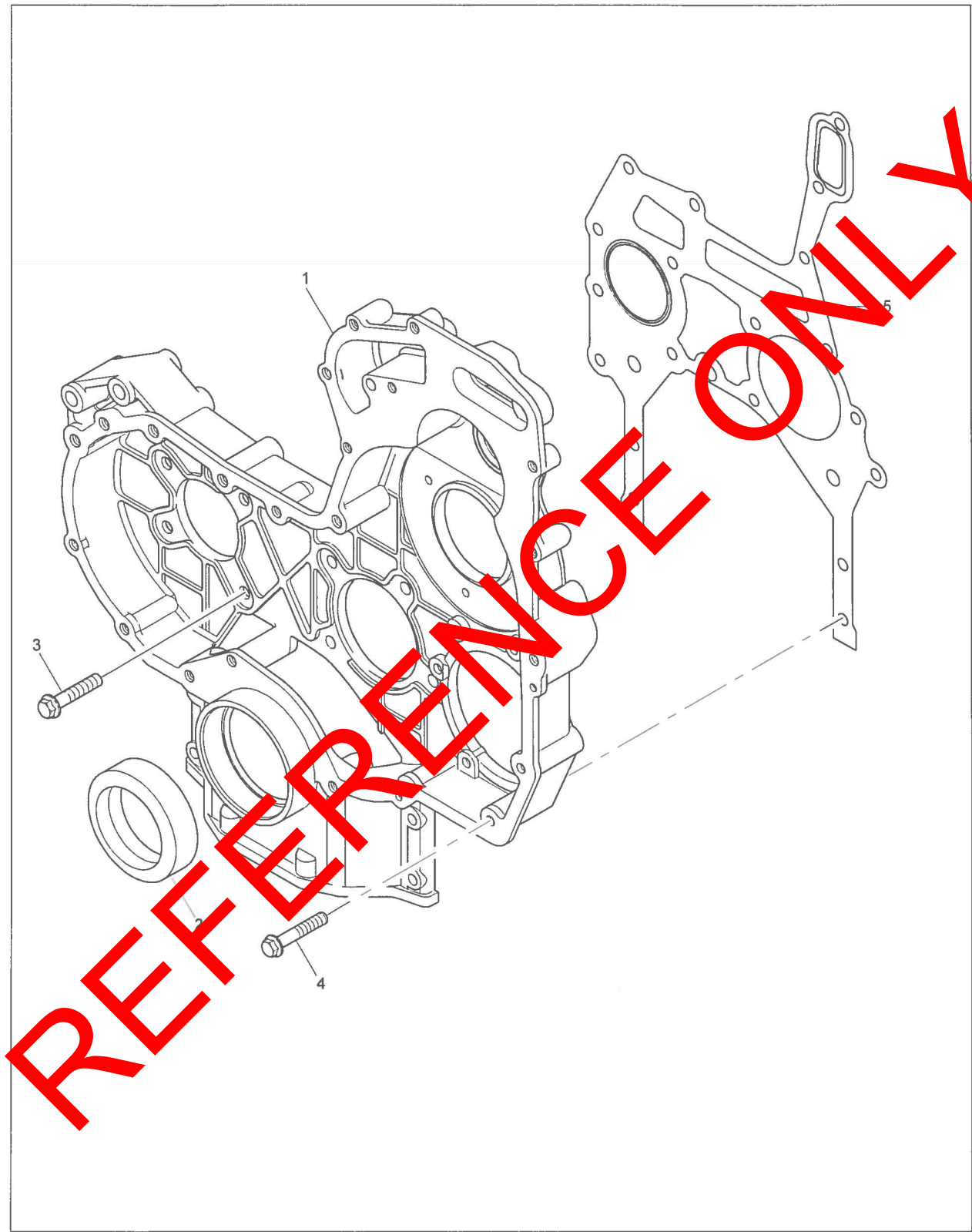


Water Outlet Housing		Plate A
→ 01/02/2004	LDHR0702	

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

QCHR0024

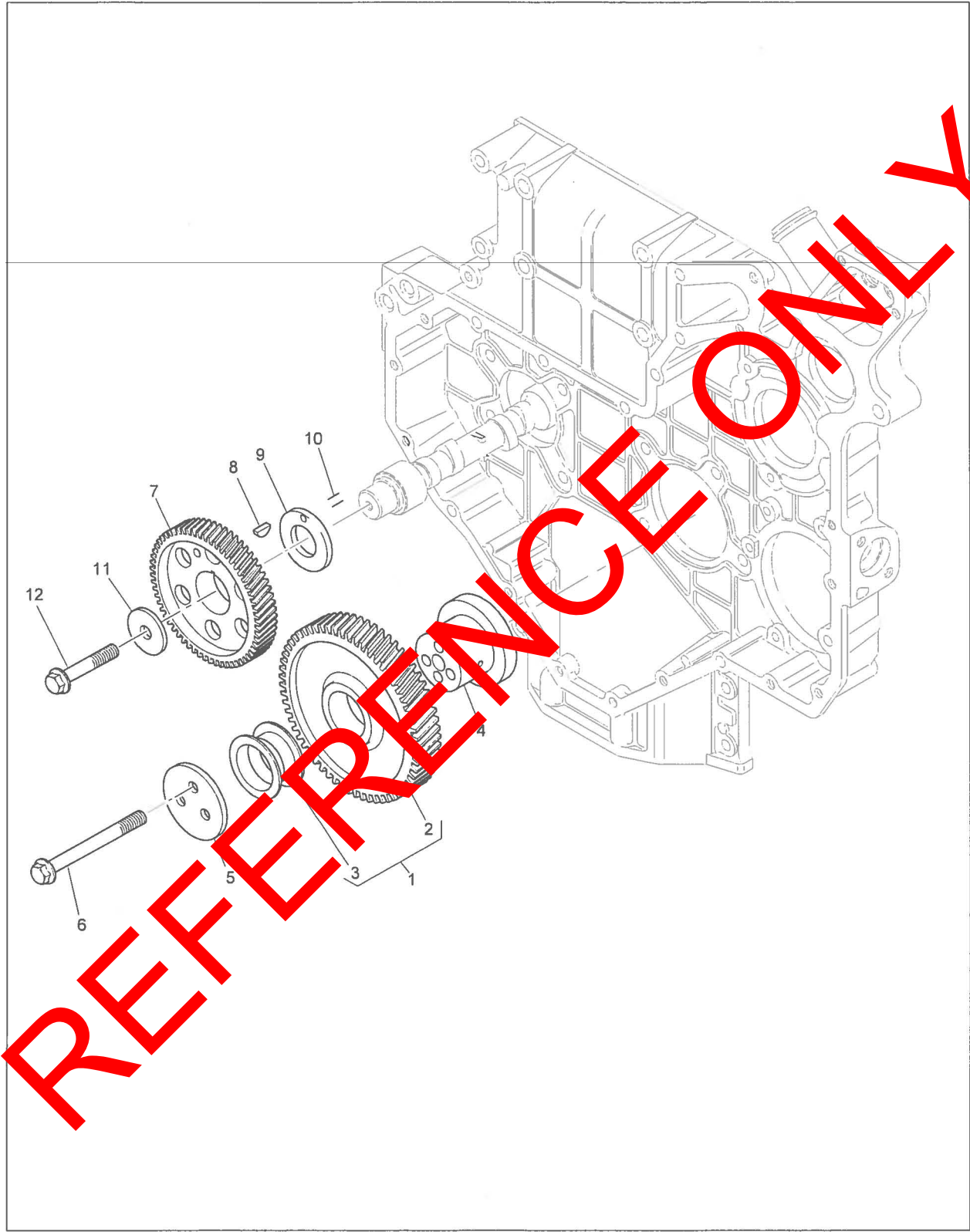


Timing Case	Plate A
	QCHR0024

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

QCHR0024

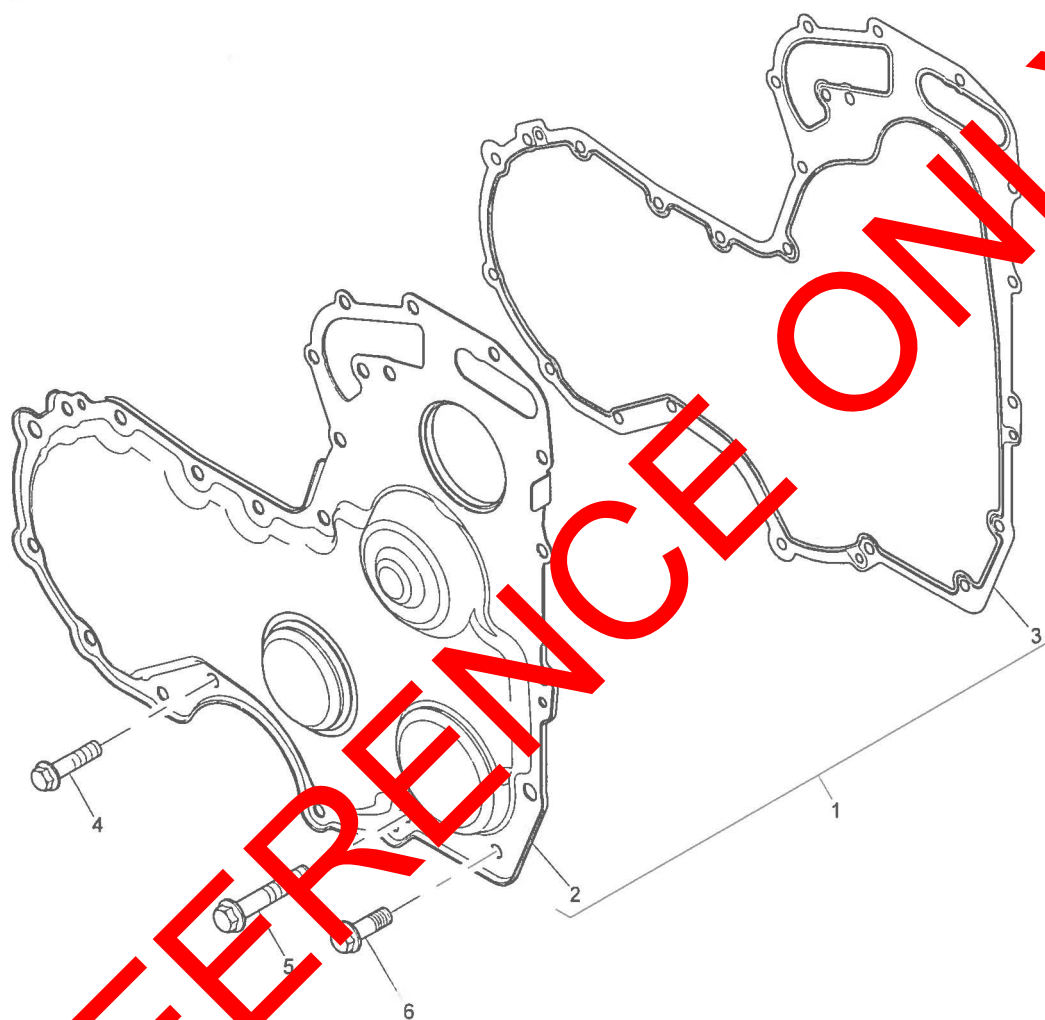


Timing Case	Plate B
	QCHR0024

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

History					
a.					
5	3241A021		1	PLATE	
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	3117N041		1	IDLER GEAR	

QCHR0024



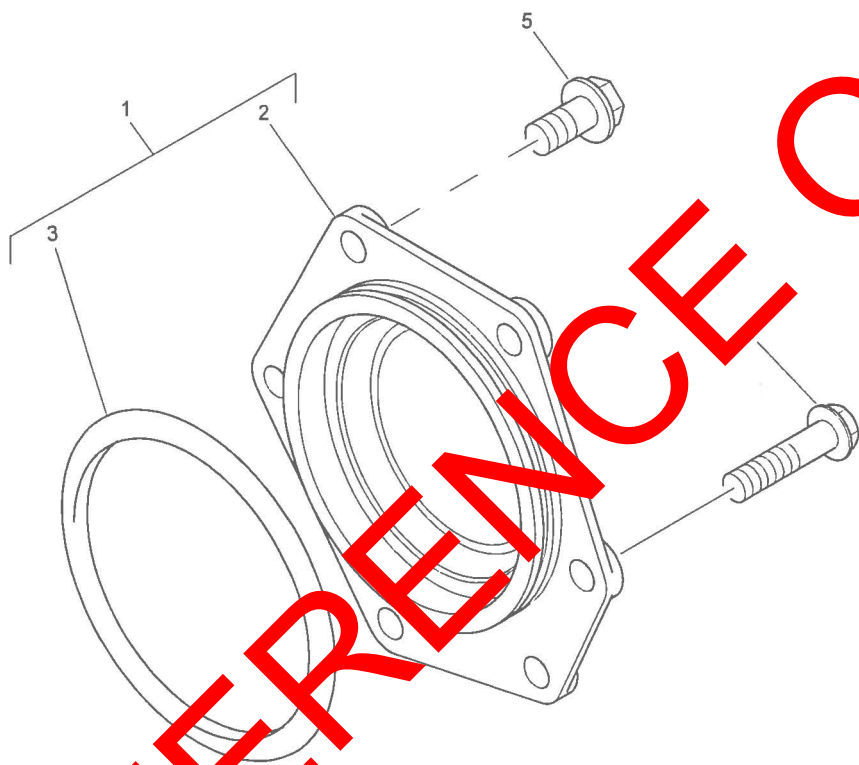
Timing Cover	Plate A
	QCHR0024

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

QDHR1380



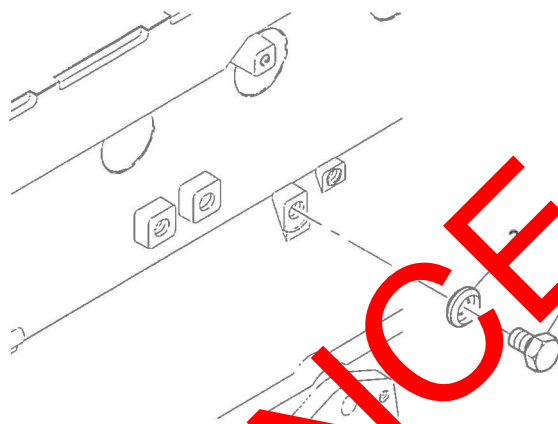
REFERENCE ONLY

Blanking Plates		Plate A
		QDHR1380

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

REFERENCE ONLY

QDHR1380



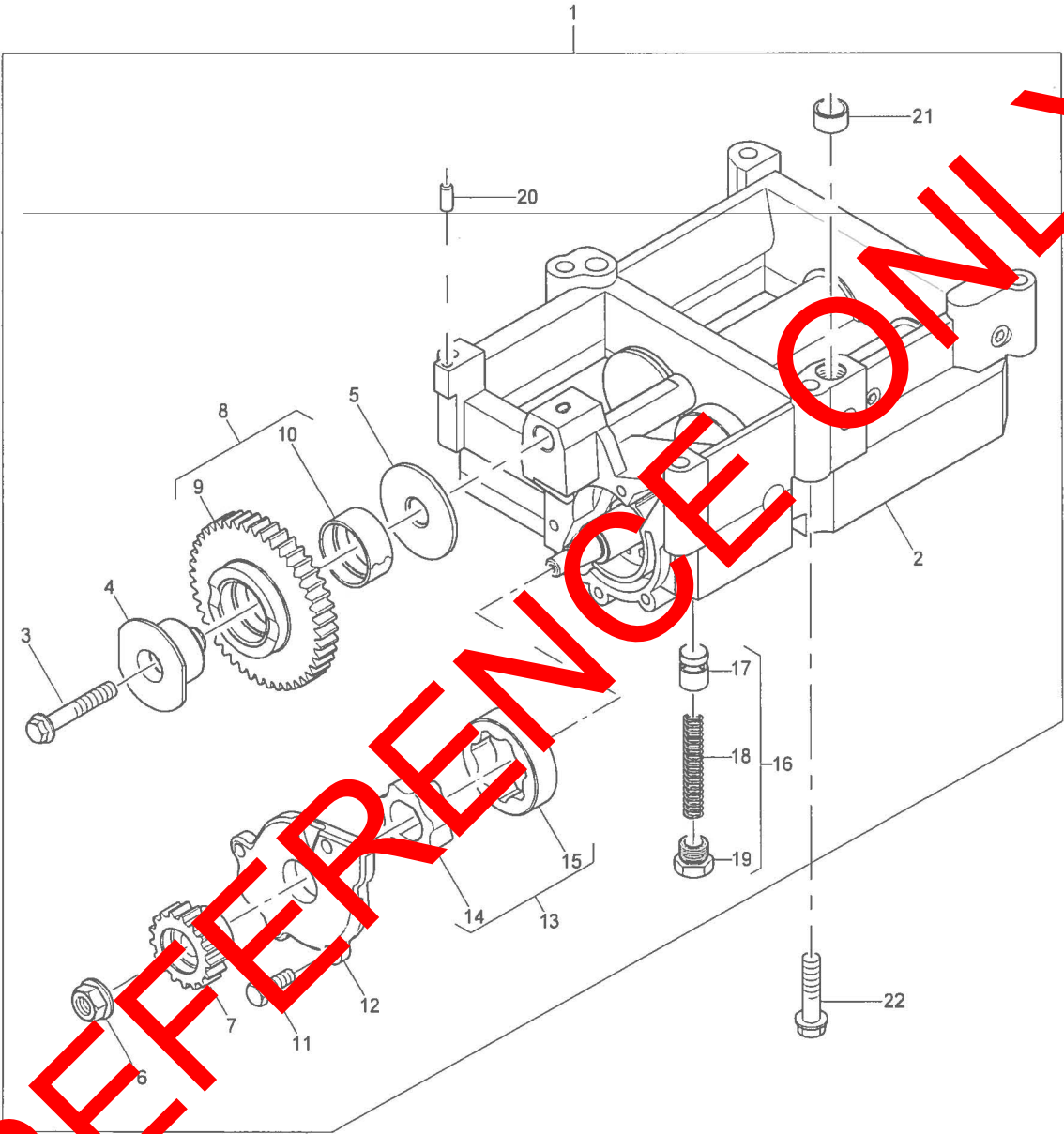
REFERENCE ONLY

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

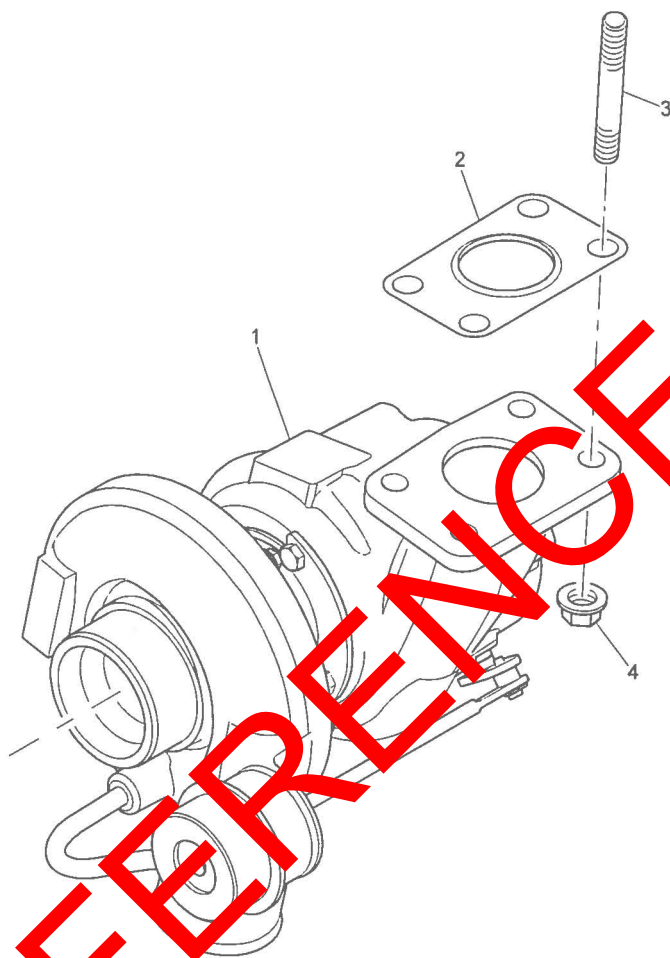
RBHR0029



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	DOVCEL	
21	└ 33137409		1	TUMBLE	
22	2314J012		6	SCREW	
History					
a.					
1	4111K073		1	BALANCER	
4	└ 3272A018		1	SHAFT	

SBHR1548

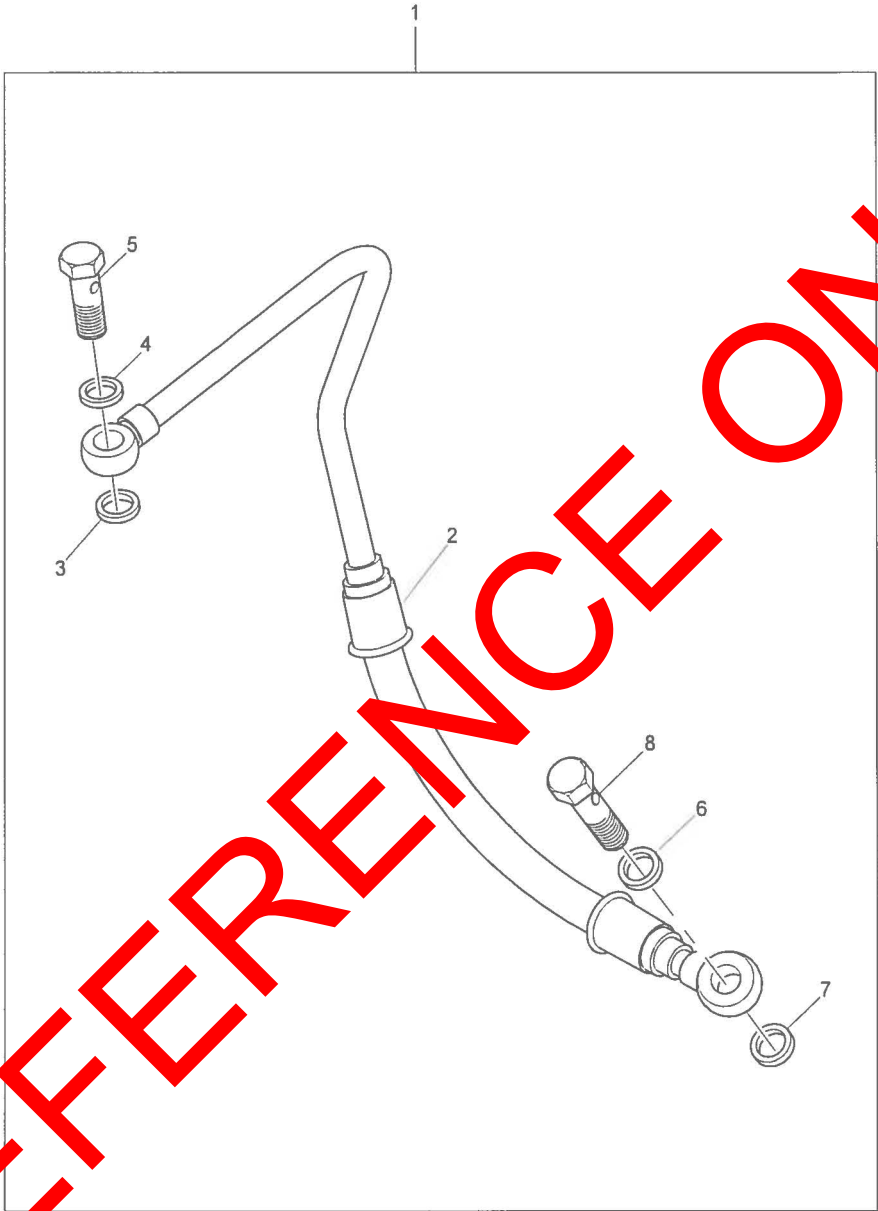


Turbocharger		Plate A
		SBHR1548

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

SBHR1548

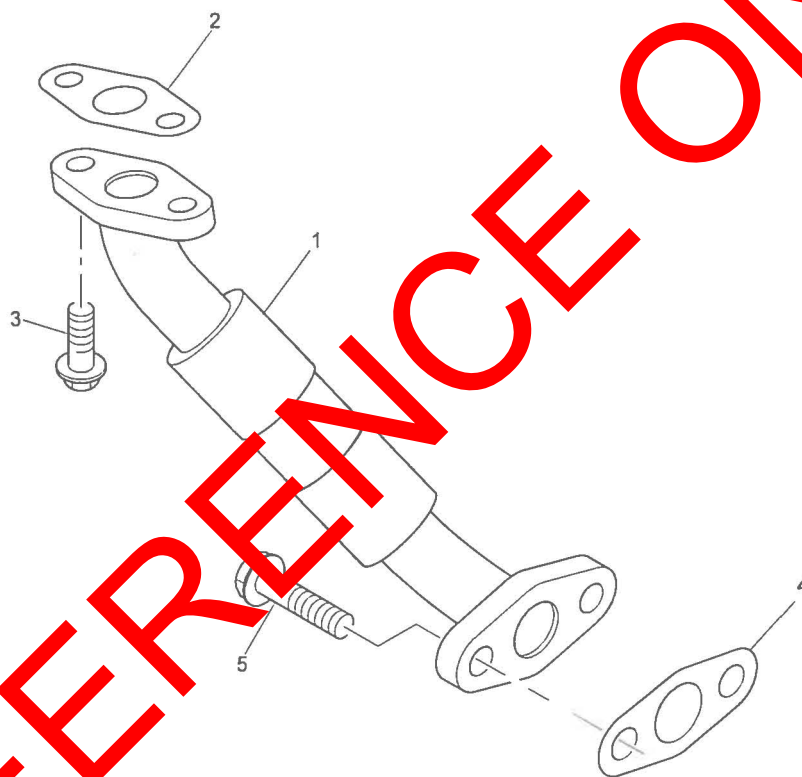


Feed Pipes		Plate A
		SBHR1548

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

SBHR1548

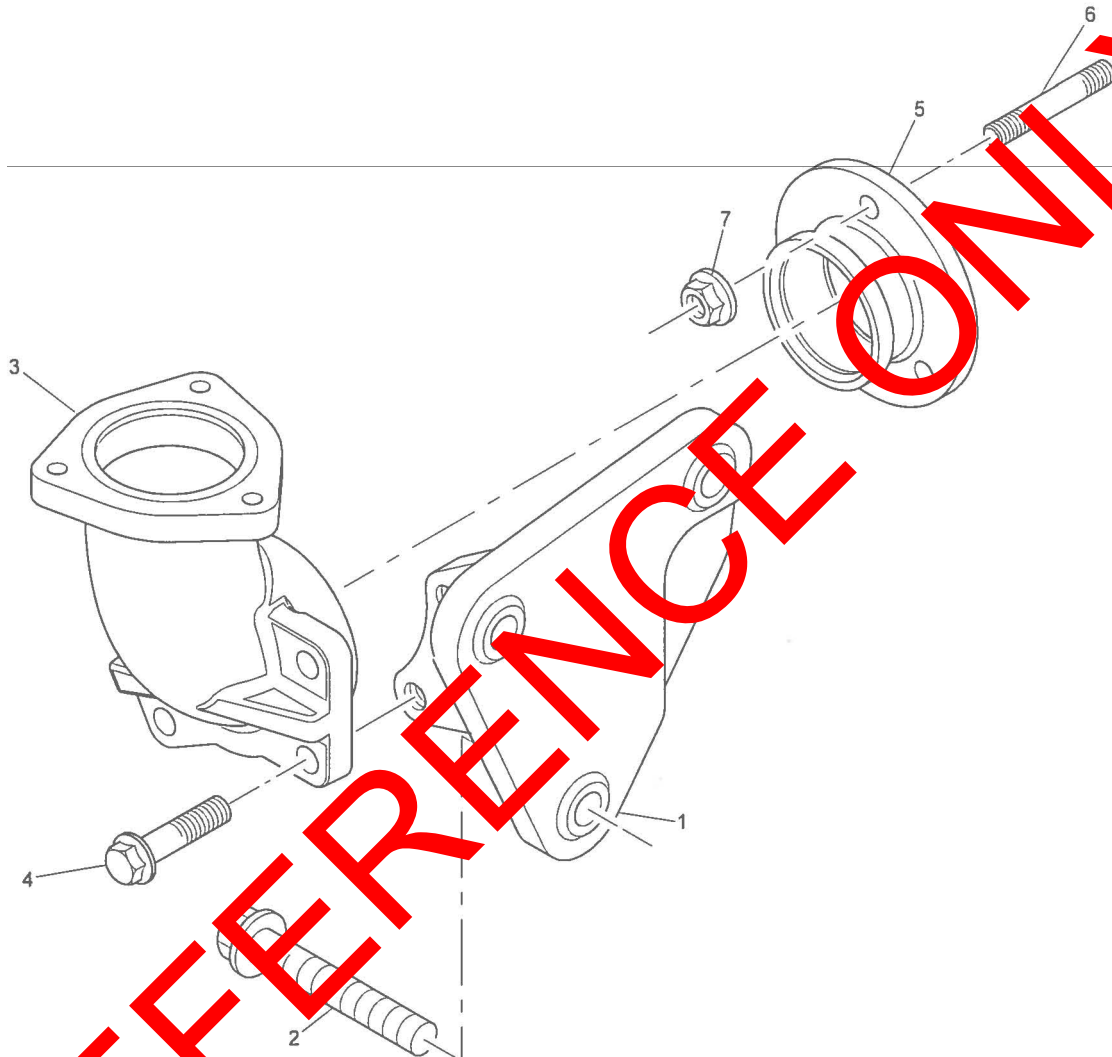


Leak-Off Pipes		Plate A
		SBHR1548

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

SBHR1548

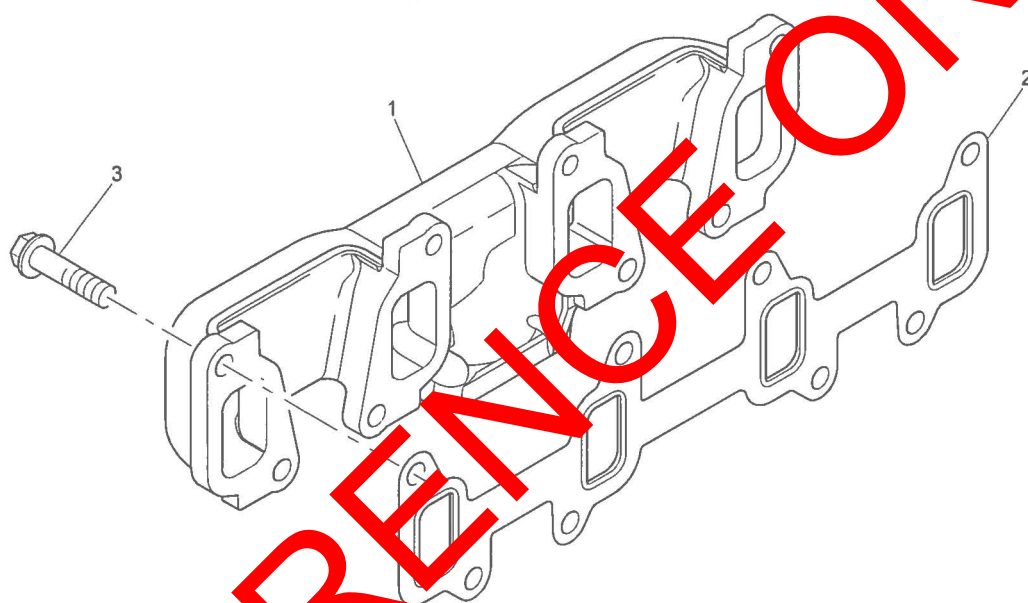


Pipework & Connections		Plate A
		SBHR1548

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

SBHR1548

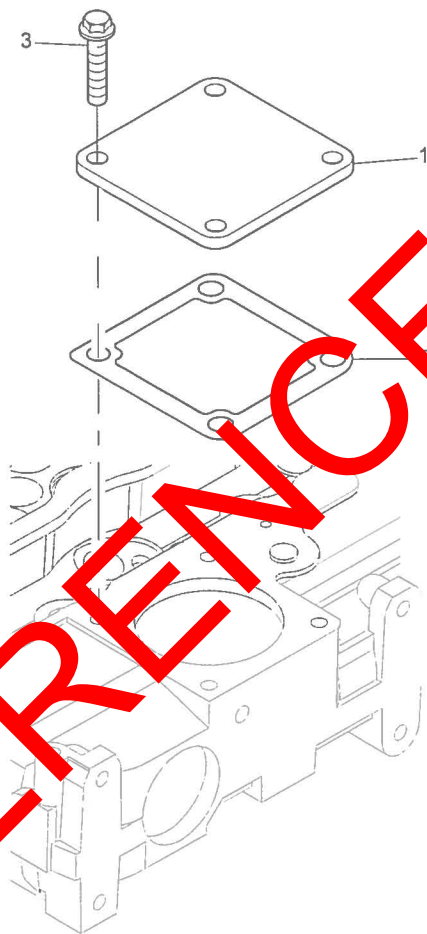


Exhaust Manifold		Plate A
		SBHR1548

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

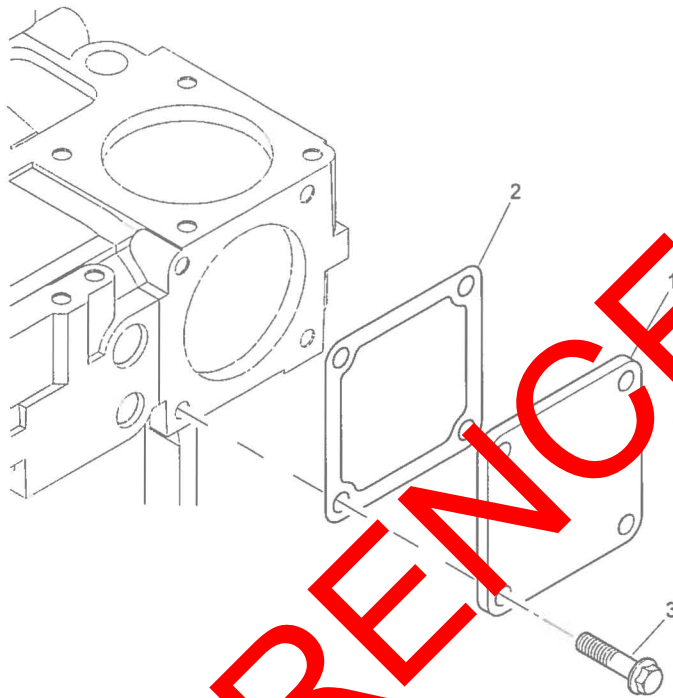


Air Charge Cooler		Plate A
		TBHR0980

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

REFERENCE ONLY

TBHR0980

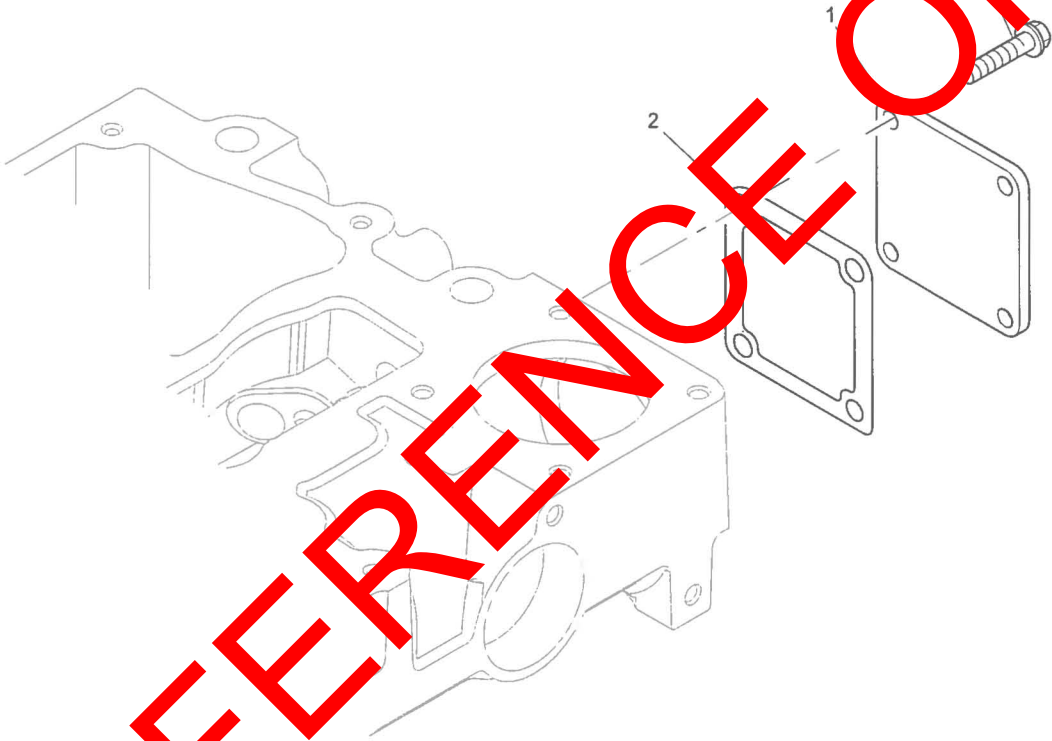


Air Charge Cooler		Plate B
		TBHR0980

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

REFERENCE ONLY

TBHR0980

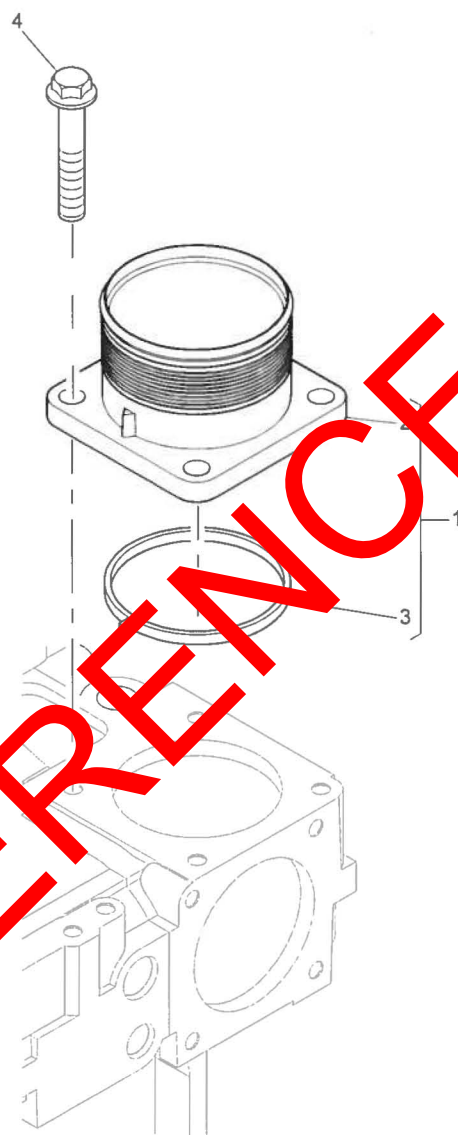


Air Charge Cooler		Plate C
		TBHR0980

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

REFERENCE ONLY

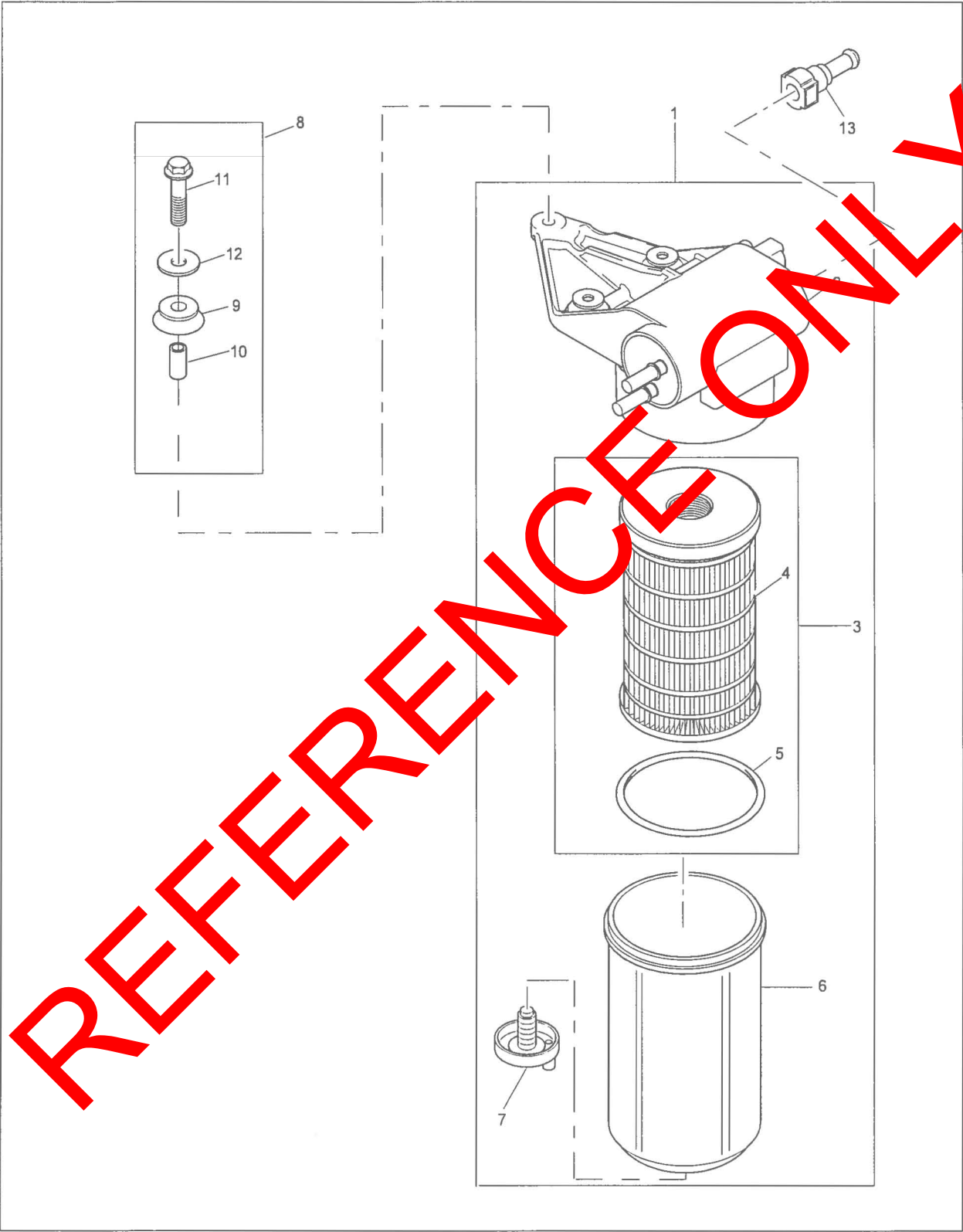
TBHR0980



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	

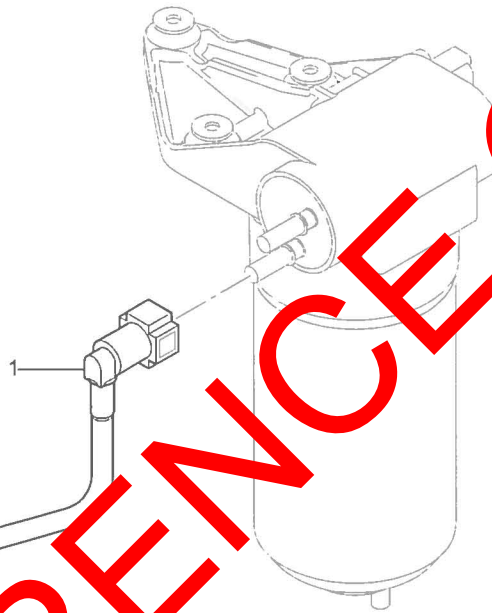
Item	Part No.	References	Qty.	Description	Notes
1	4132A014		1	LIFT PUMP	
2	└─	⇒ 4132A014	1	LIFT PUMP	
3	└─ 26560201		1	FUEL FILTER	
4	└─┬─	⇒ 26560201	1	FUEL FILTER ELEMENT	
5	└─┬─	⇒ 26560201	1	O RING	
6	└─ 2656F837		1	BOWL	
7	└─ 2656F836		1	DRAIN PLUG	
8	U5MK0696	ⓐ a.	1	MOUNTING KIT	
9	└─	⇒ U5MK0696	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

VBHR2178



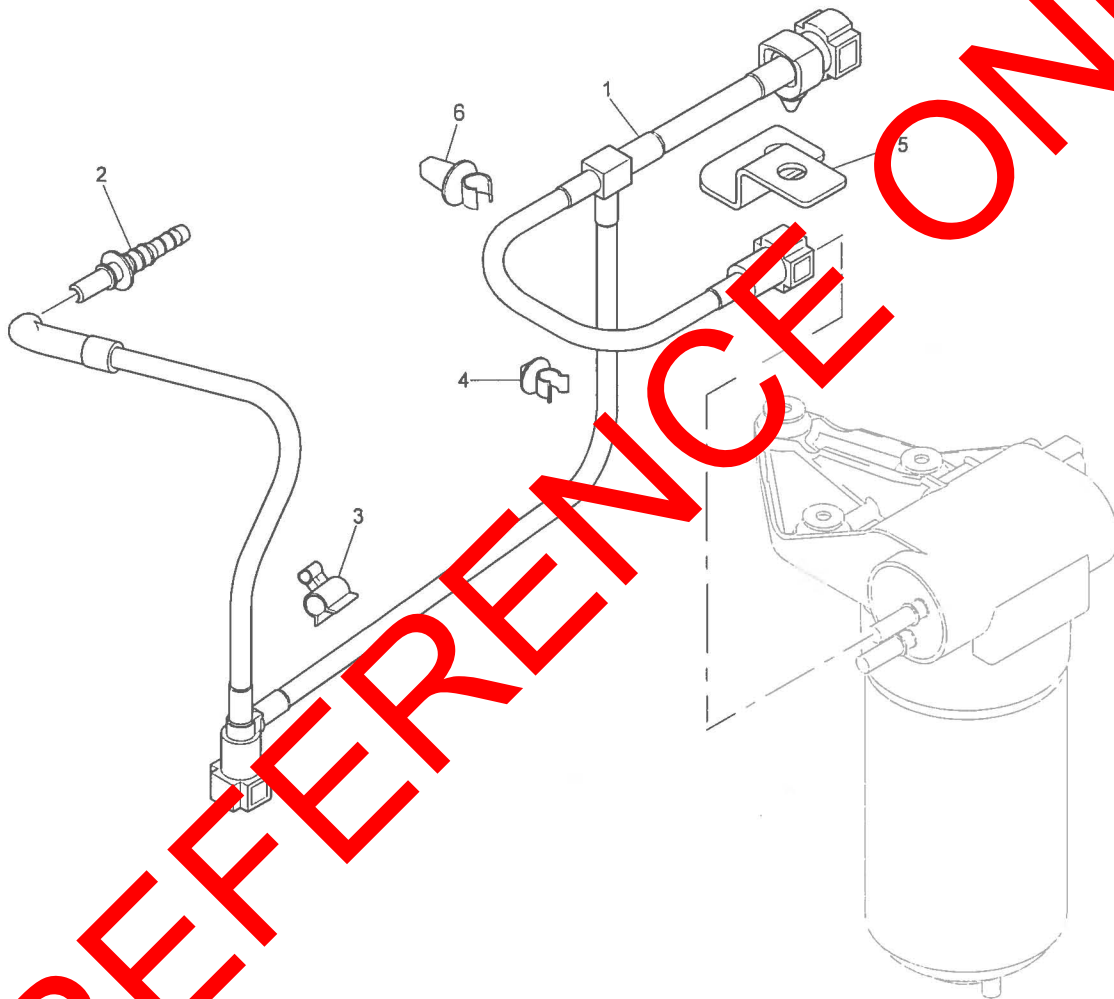
Filter to Injection Pump Pipe		Plate A
		VBHR2178

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

REFERENCE ONLY

PPL030522

VBHR2178

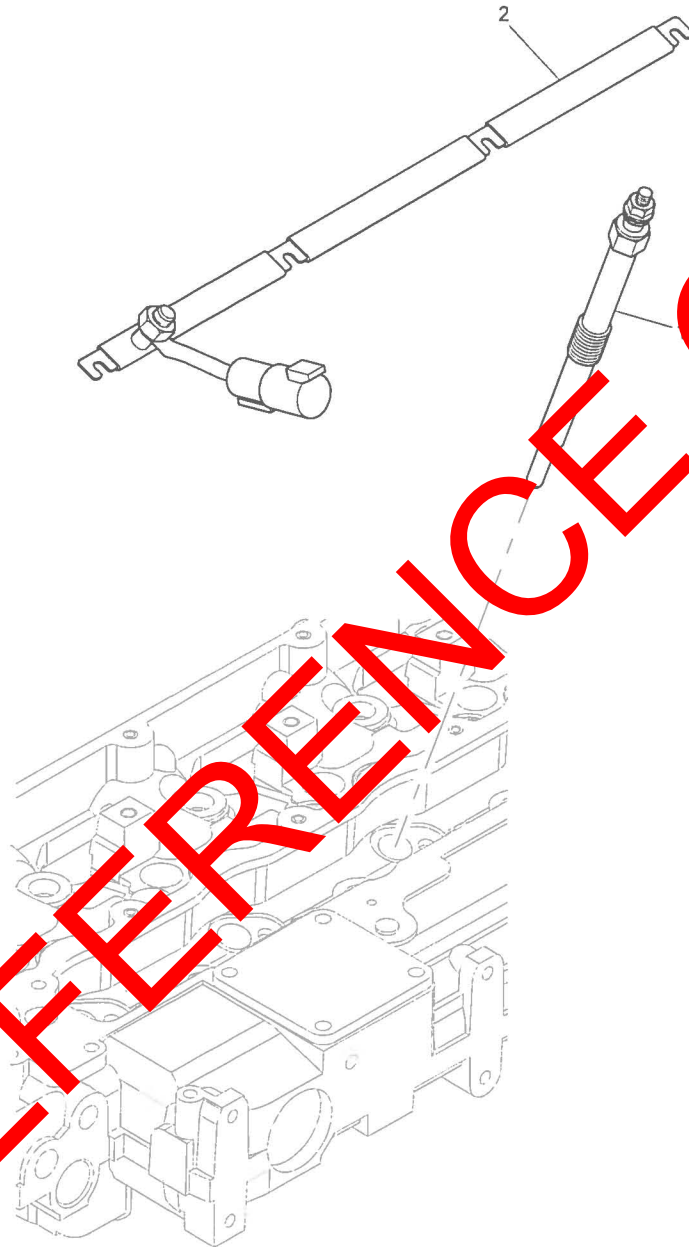


Injection Pump to Filter Pipe		Plate B
● PPL030522	VBHR2178	

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

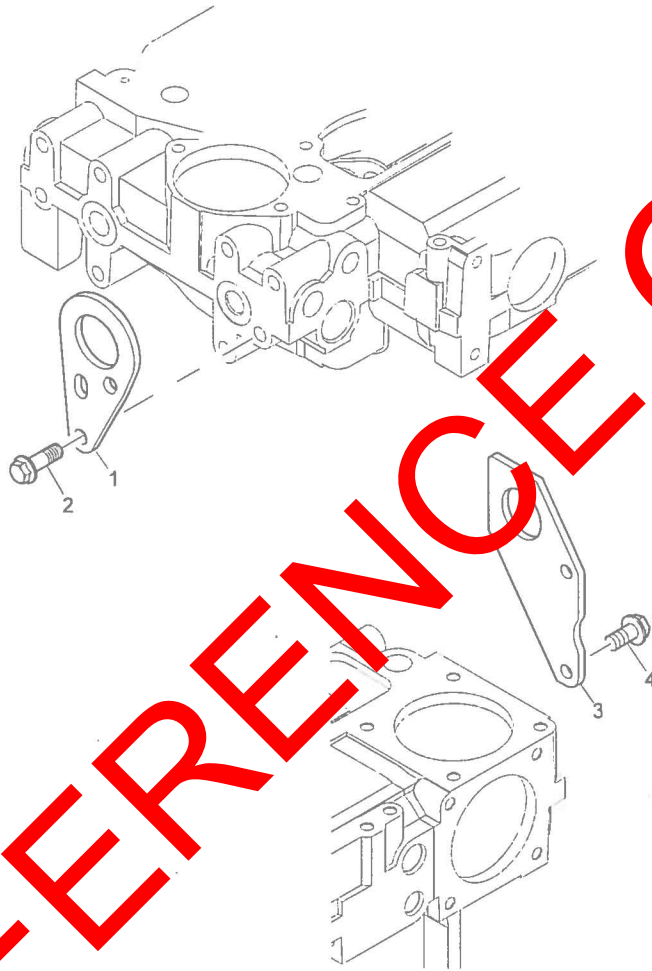


Heater Plugs		Plate A
		WDHR0345

Item	Part No.	References	Qty.	Description	Notes
1	2666A016		4	GLOWPLUG	
2	3161C019	 a.	1	BAR	
History					
a.					
2	3161C015		1	BAR	

REFERENCE ONLY

XBHR0458

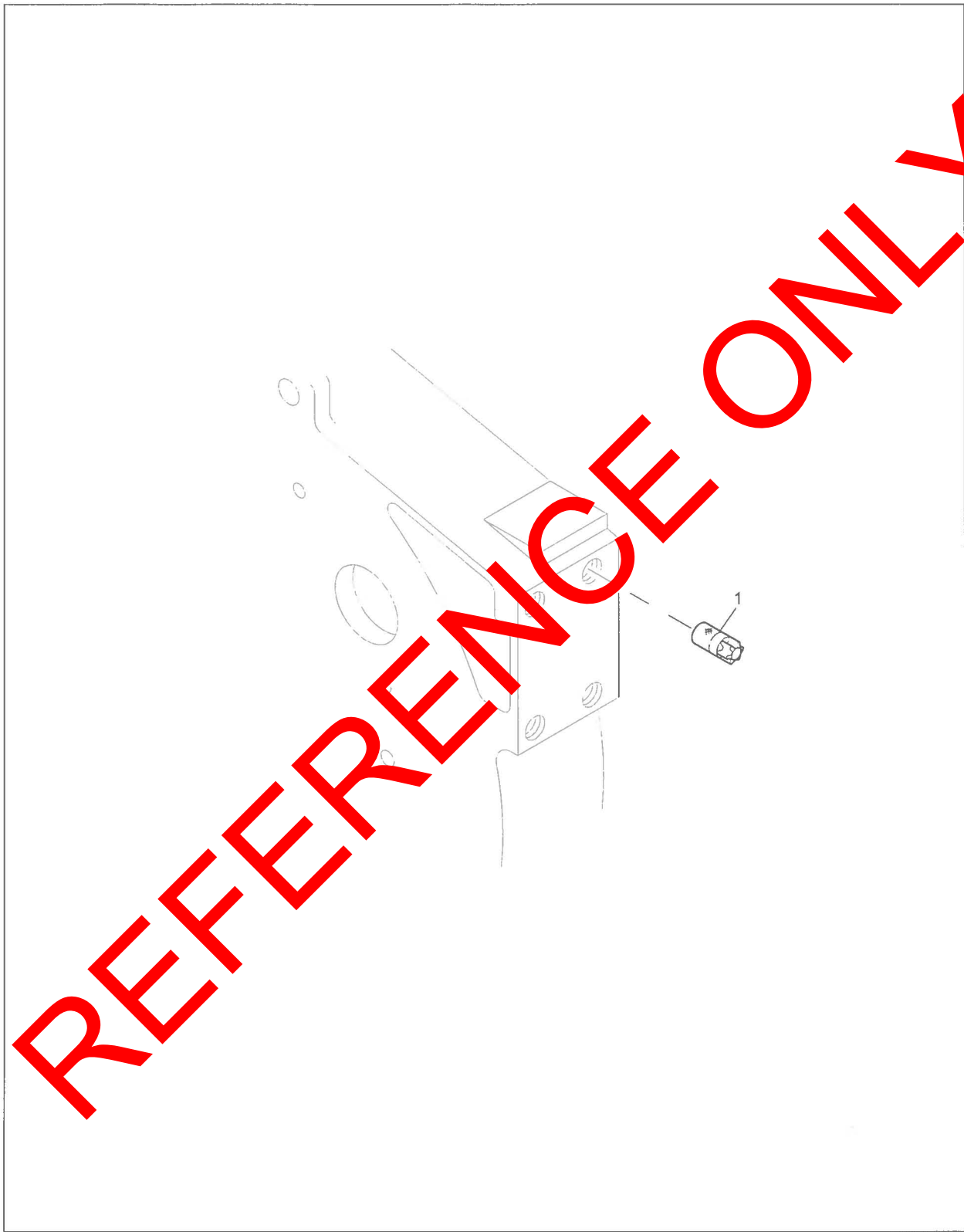


Engine Lifting Eyes		Plate A
		XBHR0458

Item	Part No.	References	Qty.	Description	Notes
1	3617A015		1	LIFTING BRACKET	
2	2314J002		2	SCREW	
3	3624A016	Q a.	1	LIFTING BRACKET	
4	2314J002		2	SCREW	
History					
a.					
3	3615A008		1	LIFTING BRACKET	

REFERENCE ONLY

ZCHR1175

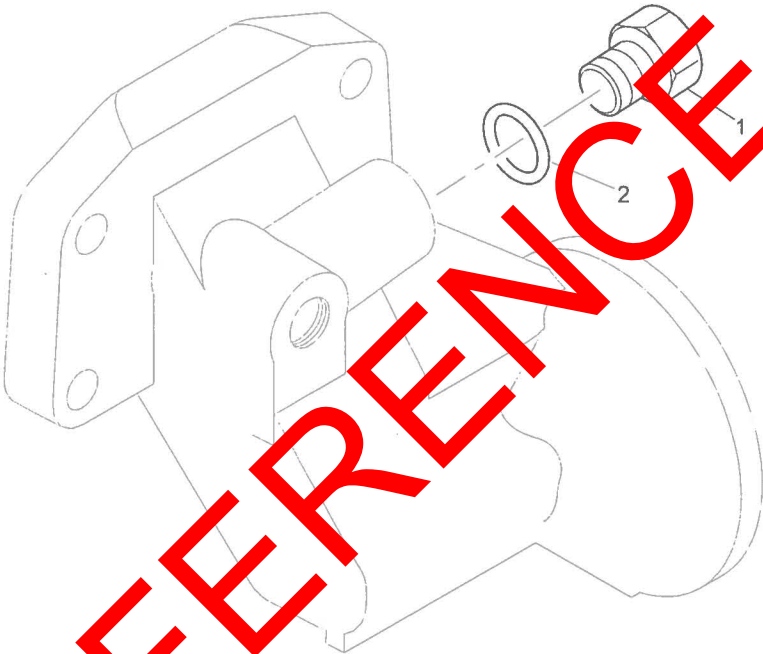


Engine Mounts		Plate A
	ZCHRII75	

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

REFERENCE ONLY

ZJHR0547

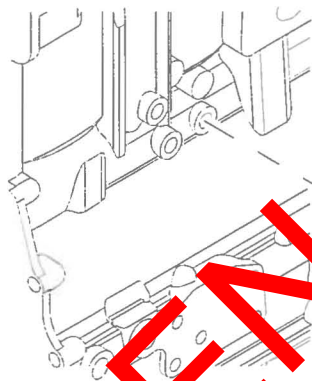


Lubricating Oil Pressure Switch/Gauge		Plate A
		ZJHR0547

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

REFERENCE ONLY

ZJHR0547



REFERENCE ONLY

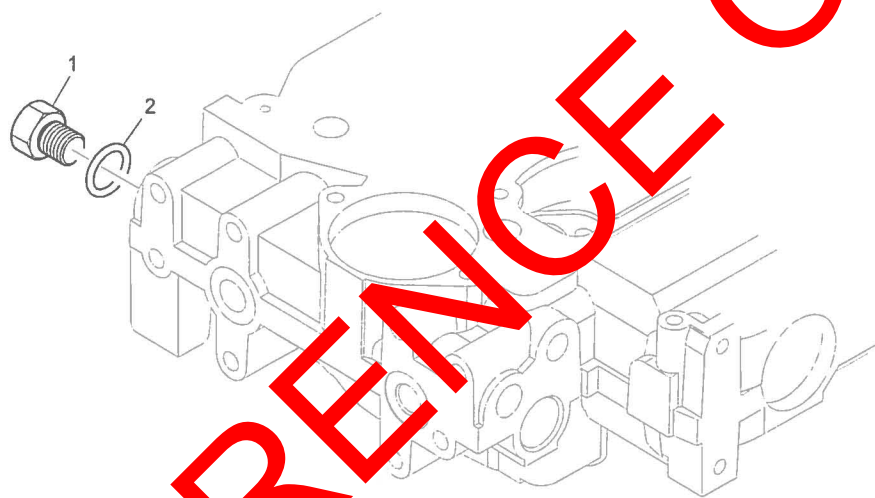
Lubricating Oil Pressure Switch/Gauge		Plate B
		ZJHR0547

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

Footnotes					
(A)	OIL PRESSURE SWITCH				

REFERENCE ONLY

ZLHR0360

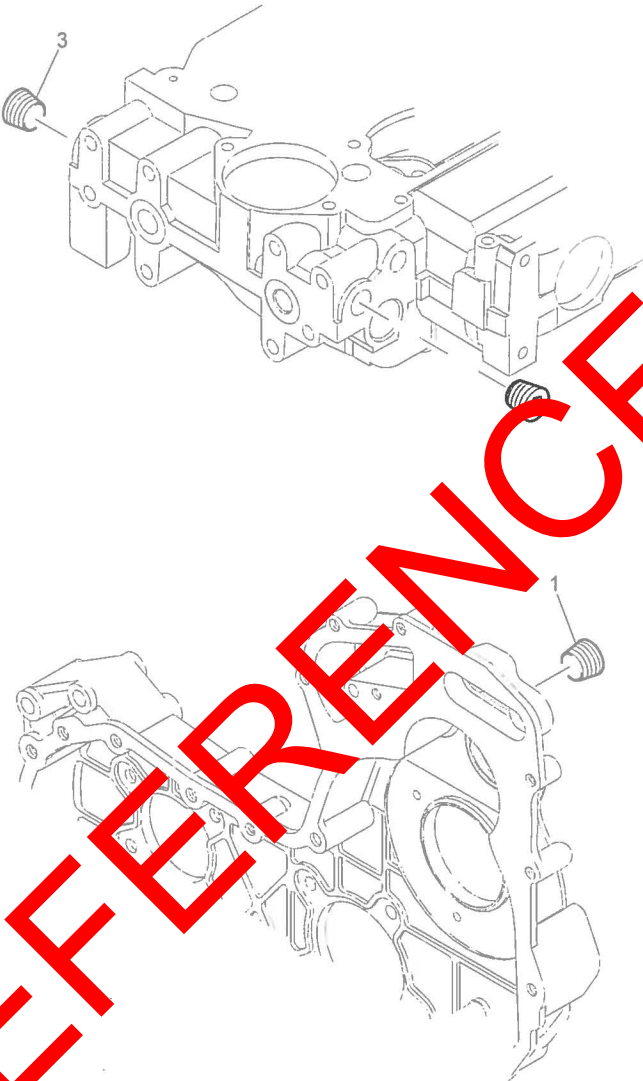


Temperature Gauge & Sender		Plate A
		ZLHR0360

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

REFERENCE ONLY

ZZHR1012



REFERENCE ONLY

Miscellaneous & Auxiliaries		Plate A
		ZZHR1012

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

REFERENCE ONLY

☐ SACR0001 ☐ SACR0350

SACR0350

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

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

SGBR0381

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

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 - PUMP	

REFERENCE ONLY

REFERENCE ONLY

Description	Part No.	Page
ADAPTOR	3161C012	29
	3347A041	99
BALANCER	4111K073	91, 91
BALANCER GEAR	3117A101	91
	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
BLOCK	3241N001	69
BOLT	2014H051	1
	3218R037	69
BOTTOM JOINT AND GASKET KIT	U5LE0381	133
BOWL	2656F837	111
BRACKET	3641A007	29
	3653A017	35
	3733A011	115
	3824A081	99
BRIDGE PIECE	3627P041	47
CABLE	3161C017	37
CAMSHAFT	3141D222	27

Description	Part No.	Page
CAMSHAFT BUSH	3112D071	13
CAMSHAFT GEAR	3117N001	8
CAP	2646E501	4
	3342A011	23, 2
	3708A003	53
	3788A003	53
CIRCLIP	2021332	17
	0722A022	25
CLIP	2481D456	35, 115
	2481D556	35
	2481D558	35, 115
	2481Y011	31
	2481Y012	31
	2646E017	31
	2646E019	31
CON ROD ASSEMBLY	K138AF02	41, 115
	4115C311	11, 19
	4115C312	11, 19
	4115C313	11, 19
	4115C314	11, 19
	4115C315	11, 19
CON ROD BOLT	4115C316	11, 19
	3212V003	19
CONNECTION	3763A045	115
	3763A046	111
	4133L048	75
	4133L501	77

Parts Index

Description	Part No.	Page
	4133L507	79
	4148K007	109
CONTACT	3245A002	91
COVER	3753R351	91
	3788N003	55
COVER PLATE	3615A009	53
CRANKSHAFT GEAR	3117C221	15
CRANKSHAFT KIT	ZZ90222	11, 15, 15
CRANKSHAFT KIT - EXCHANGE	ZZ90222P	11, 15
CRANKSHAFT PULLEY	3115T051	69
CYL HEAD COVER ASSY	4142X292	53
	4142X312	53
CYLINDER BLOCK ASSEMBLY	ZZ50311	13, 13
CYLINDER HEAD BOLT	3218A011	23
	3218A012	23
CYLINDER HEAD KIT	ZZ22268	23
DIAPHRAGM	3789A001	53
DIPSTIC	3178C088	49
DOVE	2116053	83
	3244A009	13
	3244A013	91
DRAIN PLUG	2656F836	111
EXHAUST ELBOW	3766A131	99

Description	Part No.	Page
EXHAUST MANIFOLD	3778E213	101
EXHAUST VALVE	3142A151	23
FAN DRIVE HOUSING	4113K005	45
FAN DRIVE PULLEY	3115C113	45
FRONT OIL SEAL	2418F45	81
FUEL FILTER	2656026	111
FUEL INJECTION PUMP	2644H00	29
	2644H016	29
	2644H042	29
FUEL INJECTION PUMP GEAR	3117L261	29
GASKET	36832137	51, 133
	3684N503	103, 105, 107, 131
	3688A035	97, 131, 133
	3688A036	97, 131
GASKET - BREATHER	3688A038	57
GASKET - CYL. HEAD COVER	3681A055	53, 131
GASKET - CYLINDER HEAD	3681E051	23, 131
GASKET - EXHAUST MANIFOLD	3681V512	101, 131
GASKET - IND MANIFOLD	3682A013	109
GASKET - OIL COOLER	3685A025	61, 133

Description	Part No.	Page
	3685A033	61, 133
GASKET - OIL FILTER HEAD	3688A039	13, 63, 133
	3688A041	65, 133
GASKET - SUMP	3681K037	47, 133
GASKET - TIMING CASE	3617V015	81, 133
	3617V016	81, 133
	3681P053	81
GASKET - TIMING CASE COVER	3681P047	85, 133
GASKET - TURBOCHARGER	3688A029	93, 131
GASKET - WATER PUMP	24880234	73
	3682A011	51, 73, 133
GASKET KIT - TOP	U5LT0700	131
GLOWPLUG	26460016	117
HOSE	26460016	43
	33802632	57
HOSE CLIP	2481877	57
HUB	3272A026	83
	3272A041	83
	33426161	83
IDLER GEAR	3117N041	83
	3117N042	83
	4111A034	83, 83
IDLER GEAR BUSH	0050345	83
INJECTOR	2645K012	33

Description	Part No.	Page
INJECTOR CLAMP	3274A004	33
	3751A231	23
	3751A241	33
INJECTOR NOZZLE	2645K612	33
INJECTOR WASHER	L211FF02	23, 131
INTAKE VALVE	3142H071	23
LIFT PUMP	3132A014	111
LIFTING BRACKET	3615A008	119
	3617A015	119
	3624A016	119
MAIN BEARING KIT	U5MB0018	15
MAIN BEARING KIT - OIL	U5MB0018A	15
	U5MB0018B	15
	U5MB0018C	15
METRIC BOLT	3211C002	11, 21
MOUNTING KIT	U5MK0696	111, 111
NUT	0576052	25, 25
	0576111	41
	2318A108	29
	2318A603	29, 47
	2318A634	93, 99
	2318F605	91
OIL COOLER	3353D005	49
	2486A217	61
	4134W021	61
OIL FILLER CAP	4142X099	53
OIL FILTER	2654407	67

Parts Index

Description	Part No.	Page
OIL FILTER HEAD	3773A061	63
OIL PRESSURE SWITCH	2848062	125
OIL SUCTION STRAINER	3765A101	51
OLIVE	0566002	41
	33811112	41
	33812116	49
PIPE - BOOST	4121A058	41
	4121A063	41
PIPE - BREATHER	4134K015	57
	4134K022	57
PIPE - FUEL INJ NO 1 CYL	3525A061	31
	3525A101	31
PIPE - FUEL INJ NO 2 CYL	3525A062	31
	3525A102	31
PIPE - FUEL INJ NO 3 CYL	3525A063	31
	3525A103	31
PIPE - FUEL INJ NO 4 CYL	3525A064	31
	3525A104	31
PIPE - LOW PRESSURE FUEL	2646F001	113
	2646F009	115
PIPE - TURBO OIL DRAIN	3584A002	97
PIPE - TURBO OIL FEED	4128A028	95

Description	Part No.	Page
PISTON AND RING KIT	4115P015	11, 17
	4115P016	11, 17
	4115P017	11, 17
PISTON COOLING JET	2113A001	13
	2113A002	13
PISTON RING KIT	1115P0002	17
PLATE	3241A021	83
	3241A025	83
	3241H009	83
	3611M006	103, 105, 107
	0650588	13, 23
	0650710	13
	2431154	23, 47, 47, 129, 129, 129
	2431A016	47
	2485A104	25
PLUG	2485A108	13
	2485A109	39
	2485A124	59
	3212P008	13
	3212V004	121
	3212V005	89
	3212V006	13
	32141316	13
	32186405	47
	3218A013	91

Description	Part No.	Page
	32416117	23
	3241A011	13
	3241A012	13
	3278A004	123
	3278A005	37
	3278A006	23, 37, 127
	3278A007	63
PUSHROD	31434307	27
RELIEF VALVE	U5MK0695	91
REPAIR KIT - WATER PUMP	U7LW0172	73
ROCKER ARM ASSEMBLY	4115R314	25
	4115R315	25
ROCKER SHAFT ASSEMBLY	4115R612	25
ROCKER SHAFT ASSY - MINOR	4115R703	25
ROCKER SHAFT SPRING	3278A015	25
ROTOR	4115K068	91
SCREW	2151A001	53
	2161A011	53, 57
	2311D039	47
	2311D060	61
	2314C049	89
	2314C945	91
	2314F001	13
	2314F003	55

Description	Part No.	Page
	2314F004	97
	2314F005	97
	2314F009	111
	2314F909	111
	2314H002	25, 85
	2314H003	29, 47, 75, 81, 97
	2314H004	29, 61, 77, 79
	2314H005	71
	2314H006	51, 61
	2314H012	71, 85
	2314H015	47
	2314H020	47
	2314H023	47
	2314H032	87
	2314H033	13, 103, 105, 107
	2314H034	63, 65, 81, 109
	2314H759	47
	2314J002	29, 85, 87, 119, 119
	2314J003	99
	2314J004	99
	2314J005	45
	2314J010	83
	2314J011	83
	2314J012	91

Parts Index

Description	Part No.	Page
	2314J606	83
	2314K161	61
	2314K164	71
	2314W008	33
	2314W009	33
	2316A901	25
	2316A902	25
	32114145	25, 25
	32166329	13
	3218J013	101
SEAL - FRONT END OIL	2418F436	81
SEAL - INJECTOR	26460064	33
SEAL - O RING	2415715	47, 133
	2415A068	57
	2415A131	13
	2415H001	37
	2415H002	63
	2415H503	87
	2415H701	57
	2418F001	75
	2418F002	75
	26420318	29
	26420348	133
SEAL - REOS HOUSING	2418F704	11, 21
SEAL - SENSOR	2415H002	123
	2415H003	23, 37, 127

Description	Part No.	Page
SEAL - VALVE STEM	2418M514	131
	2418M517	23
SEAL - WATER OUTLET	2415H008	77, 131
	2415H219	77
SHAFT	3272A018	91
	3272A022	91
SHORT ENGINE	RG40004	11
SMALL END BUSH	3112A005	19
SOLENOID	26420469	29
SPRING	3174A017	53
	3174A021	91
	3175P003	57
SPRINT	2313M377	93, 99
	3211P013	47
SUMP	3717E241	47
SUPPORT BRACKET	36241123	57
	3651A016	35
TAPPET	3142U031	27
THERMOSTAT	2485C041	77
THIMBLE	33137409	91
	33142111	13
THRUST WASHER	3112X011	83
	31137312	15
	31137322	15
	31137551	15
	31137561	15

Description	Part No.	Page
	3321A006	91
TIMING CASE	3716C471	81
TIMINGGEAR COVER	4142A502	85
	4142A504	85
TUBE ASSEMBLY	3577A125	49
TURBOCHARGER	2674A225	93
	2674A225P	93
UNION	0206002	41
UNION NUT	3353D004	41
VALVE COLLET	3142W004	23, 23
VALVE GUIDE	3313E021	23, 23
VALVE SEAT INSERT	3314A151	23
	3314A161	23
VALVE SPRING	3174A01	23, 23
VALVE STEM SEAL	2418M513	22, 131
WASHER	2131A006	95, 95, 95, 95
	2131A507	111
	2134A502	25
	2411D008	29

Description	Part No.	Page
	2415D053	89
	3321A003	81
	K134AF01	23
WATER PUMP GEAR	24880232	71
WATER PUMP KIT	U5MW0194	71
WATER TEMPERATURE SENSOR	2848A127	37
WATER TEMPERATURE SWITCH	2848A123	37
WOODRUFF KEY	0500012	15, 27, 83