

Parts Book

FX84179 2021/11/03

904J-E36TADDS

- Catalogue des pièces de rechange
- Ersatzteilliste
- Catalogo parti di ricambio
- Catálogo de repuestos

 **Perkins®**

THE HEART OF EVERY GREAT MACHINE



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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- Talk to your local Perkins distributor today, or visit www.perkins.com/platinumprotection for more information.

* Terms and Conditions apply

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.

Engine Breakdown

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

















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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

1

Refer to PTMI site (within secure area of www.perkins.com)
for flashfile information

Consulter le site PTMI (via le site sécurisé www.perkins.com)
pour les informations de flashfile

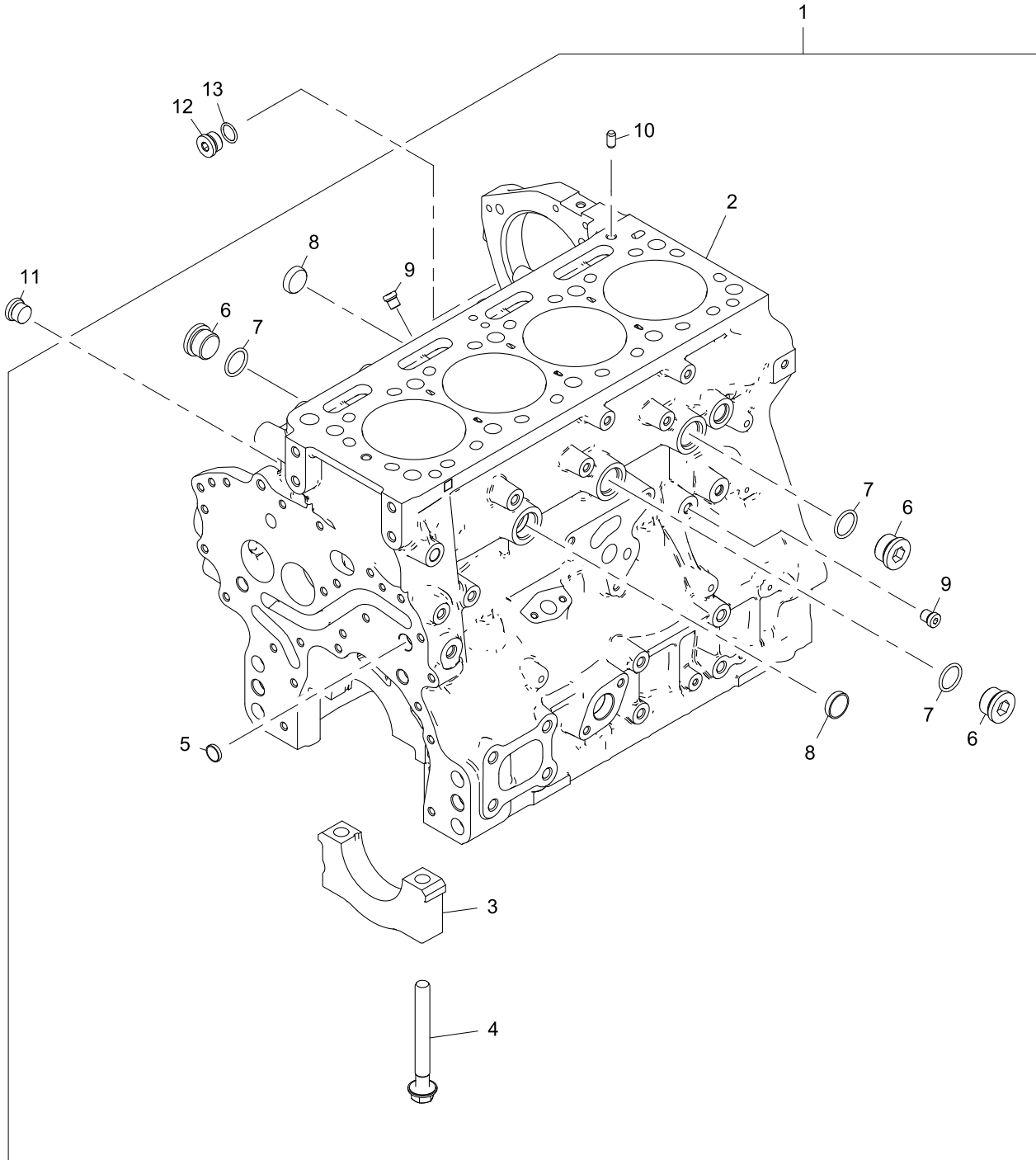
Gehen sie auf die seite PTMI (eine gesicherte seite von www.perkins.com)
für flash file informationen

Fare riferimento al PTMI (nel sito www.perkins.com)
por le informazioni sul flashfile

Consulta la zona PTMI (de la página www.perkins.com)
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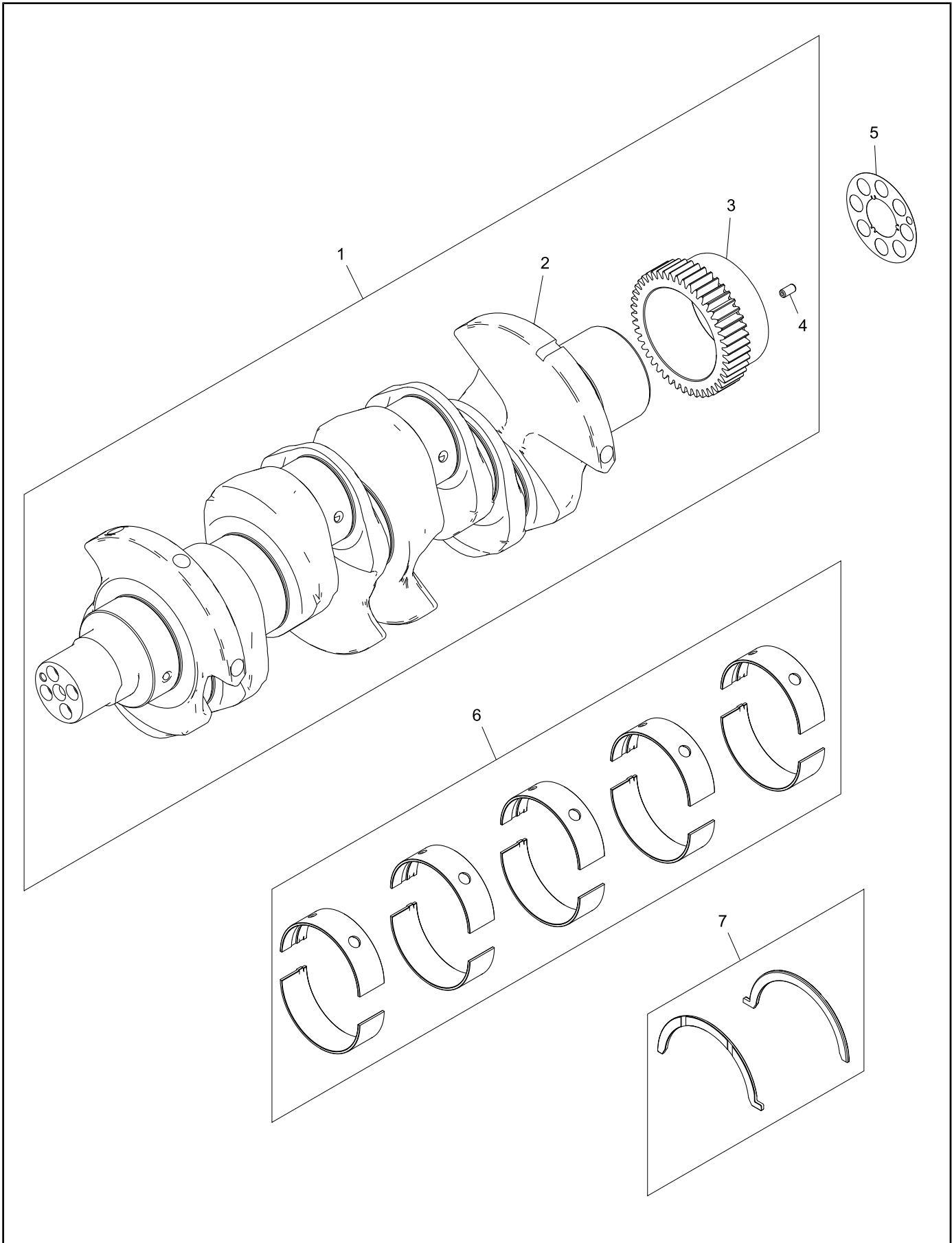
Flashfile Software	Plate A
	AAG00500

Item	Part No.	References	Qty.	Description	Notes
1			1	FLASHFILE SOFTWARE	

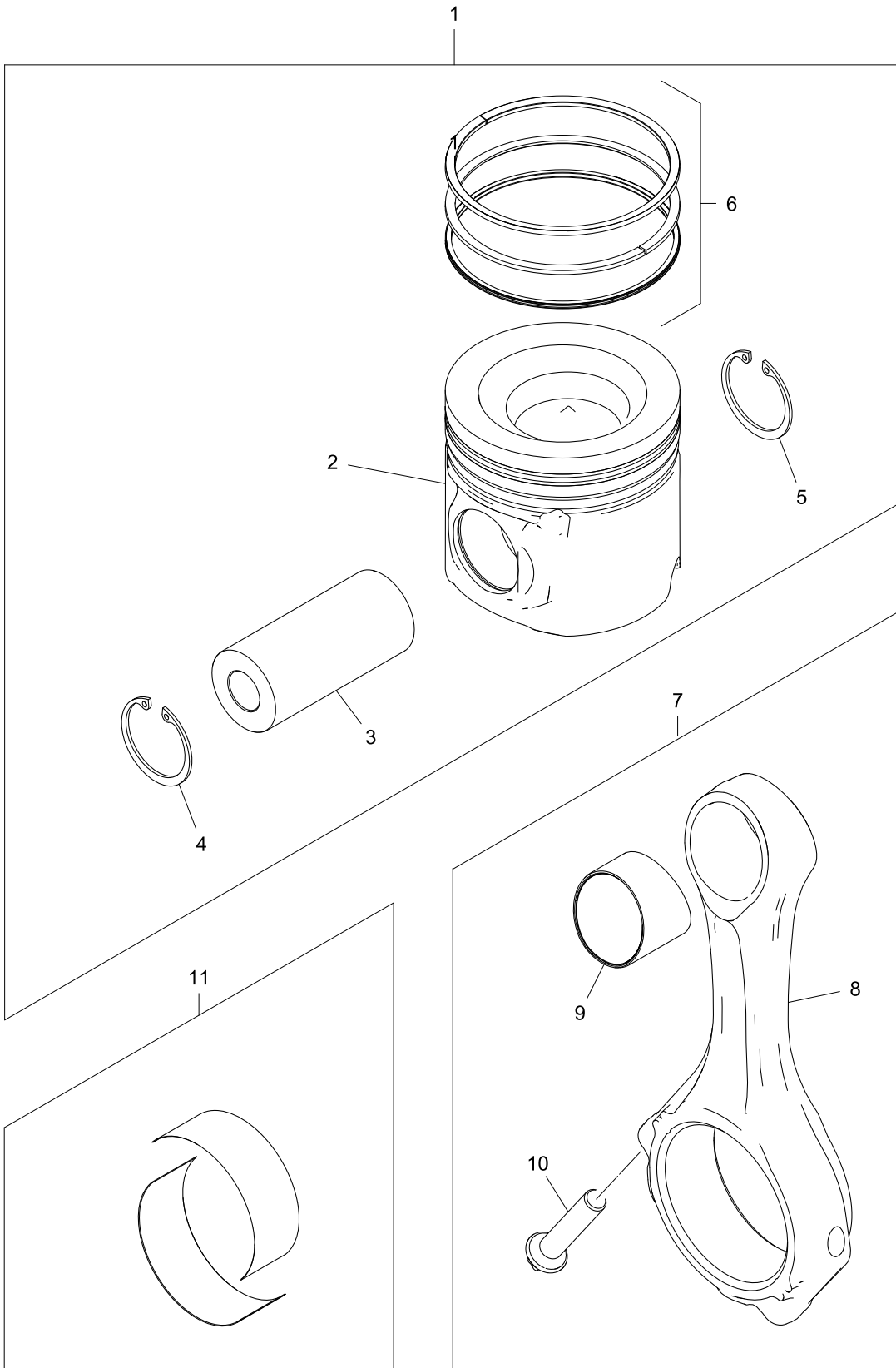


Cylinder Block	Plate A
	5395411

Item	Part No.	References	Qty.	Description	Notes
1		⇒ SHORT ENGINE	1	CYLINDER BLOCK ASSEMBLY	
2		⇒ SHORT ENGINE	1	CYLINDER BLOCK	
3		⇒ SHORT ENGINE	5	BEARING CAP	
4	3218A511		10	SCREW	
5	2485A109		1	PLUG	
6	CH12474		3	PLUG	
7	CH11621		3	SEAL - O RING	
8	2485A118		2	PLUG	
9	2487A208		2	PLUG	
10	3244A009		2	DOWEL	
11	T423993		1	PLUG	
12	CH10287		1	PLUG	
13	CH10048		1	SEAL - O RING	



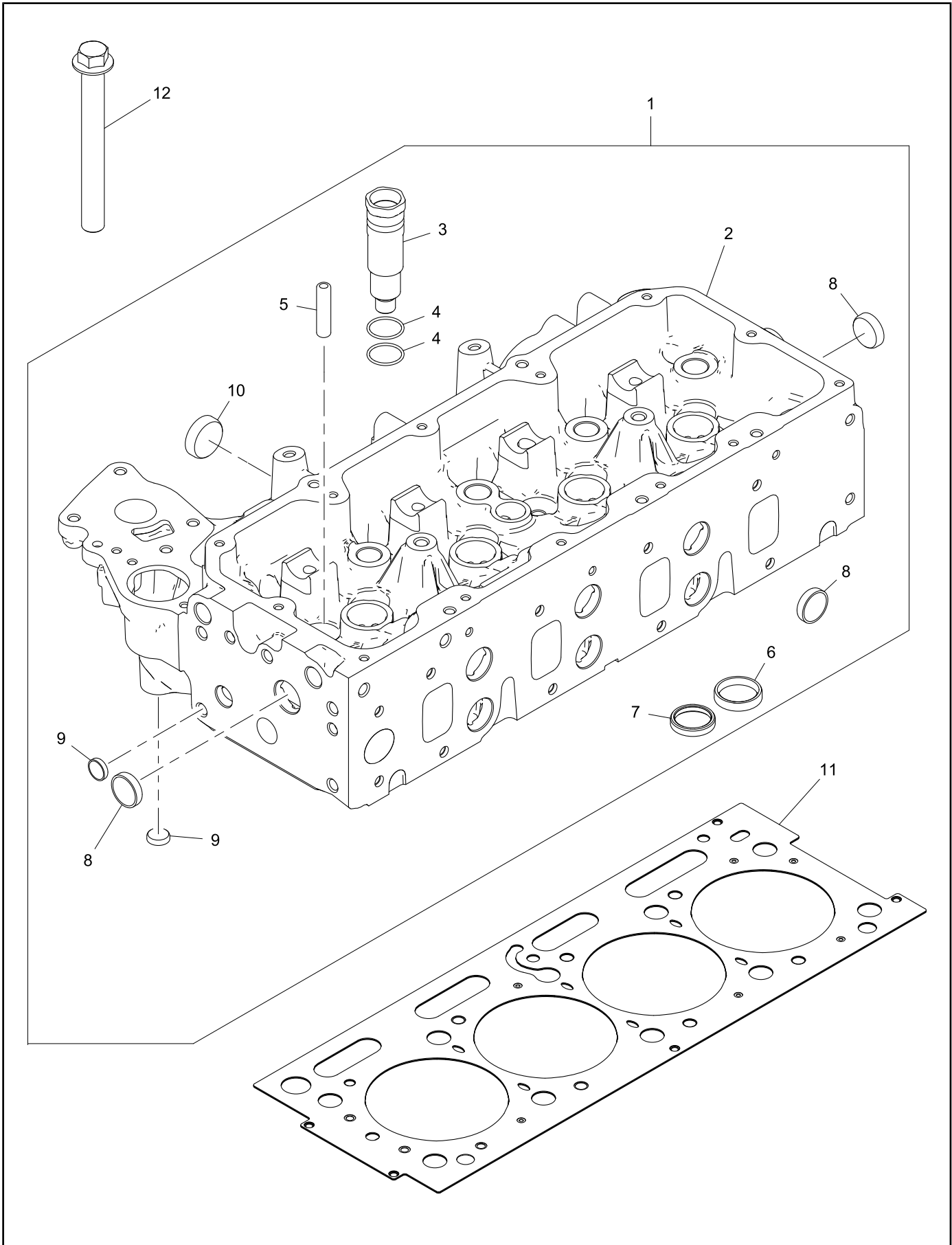
Item	Part No.	References	Qty.	Description	Notes
1	T431179		1	CRANKSHAFT ASSEMBLY	
2		⇒ T431179	1	CRANKSHAFT	
3		⇒ T431179	1	CRANKSHAFT GEAR	
4	3313A036		1	DOWEL	
5	T431103		1	SHIM	
6	T432989	Ⓢ	1	MAIN BEARING KIT	
7	T432994	Ⓢ	1	THRUST WASHER KIT	
Service Options					
6	T432993	⚖ -0.75MM	1	MAIN BEARING KIT - U/S	
6	T432992	⚖ -0.5MM	1	MAIN BEARING KIT - U/S	
6	T432991	⚖ -0.25MM	1	MAIN BEARING KIT - U/S	
7	T432995	⚖ +0.2MM	1	THRUST WASHER KIT - O/S	



Item	Part No.	References	Qty.	Description	Notes
1	T431937	Ⓢ	4	PISTON AND RING KIT	
2		⇒ T431937	1	PISTON	
3		⇒ T431937	1	GUDGEON PIN	
4	T431959		1	CIRCLIP	
5	T431959		1	CIRCLIP	
6	T431944	Ⓢ	1	PISTON RING KIT	
7	T431134		4	CON ROD ASSEMBLY	
8		⇒ T431134	1	CON ROD	
9		⇒ T431134	1	SMALL END BUSH	
10	T400001		2	CON ROD BOLT	(1)
11	T431940	Ⓢ	1	BIG END BEARING KIT	
Service Options					
1	T431947		4	PISTON AND RING KIT - O/S	(+)0.50MM
6	T431945		1	PISTON RING KIT - OVERSIZE	(+)0.50MM
11	T431941	⚖ -0.25MM	1	BIG END BRG KIT - U/S	
11	T431943	⚖ -0.75mm	1	BIG END BRG KIT - U/S	
11	T431942	⚖ -0.5MM	1	BIG END BRG KIT - U/S	

Footnotes

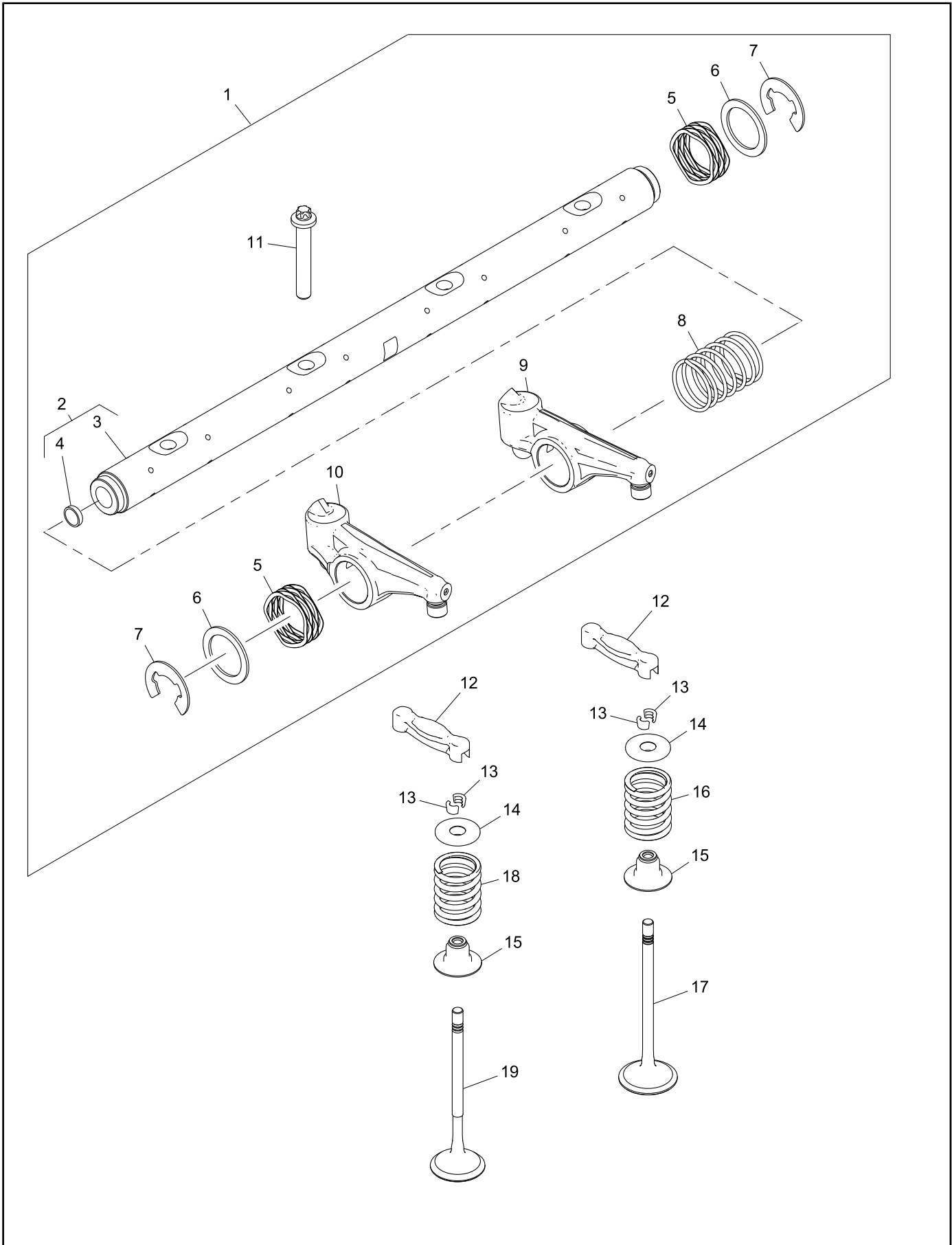
(1) DO NOT RE-USE ONCE REMOVED



Cylinder Head	Plate A
	5395489

Item	Part No.	References	Qty.	Description	Notes
1		⇒ SHORT HEAD	1	CYLINDER HEAD ASSEMBLY	
2		⇒ SHORT HEAD	1	CYLINDER HEAD	
3		⇒ SHORT HEAD	4	SLEEVE	
4		⇒ SHORT HEAD	8	SEAL - O RING	
5	T431097		16	VALVE GUIDE	
6	T431301		8	VALVE SEAT INSERT	(1)
7	T431100		8	VALVE SEAT INSERT	(2)
8	2485A517		8	PLUG	
9	2485A509		2	PLUG	
10	2485A524		1	PLUG	
11	T431770	Ⓢ	1	GASKET - CYLINDER HEAD	
12	T431260		10	CYLINDER HEAD BOLT	
Service Options					
11	T434183		1	GASKET - CYLINDER HEAD	+0.25MM
11	T434184		1	GASKET - CYLINDER HEAD	+0.5MM

Footnotes	
(1)	INLET
(2)	EXHAUST



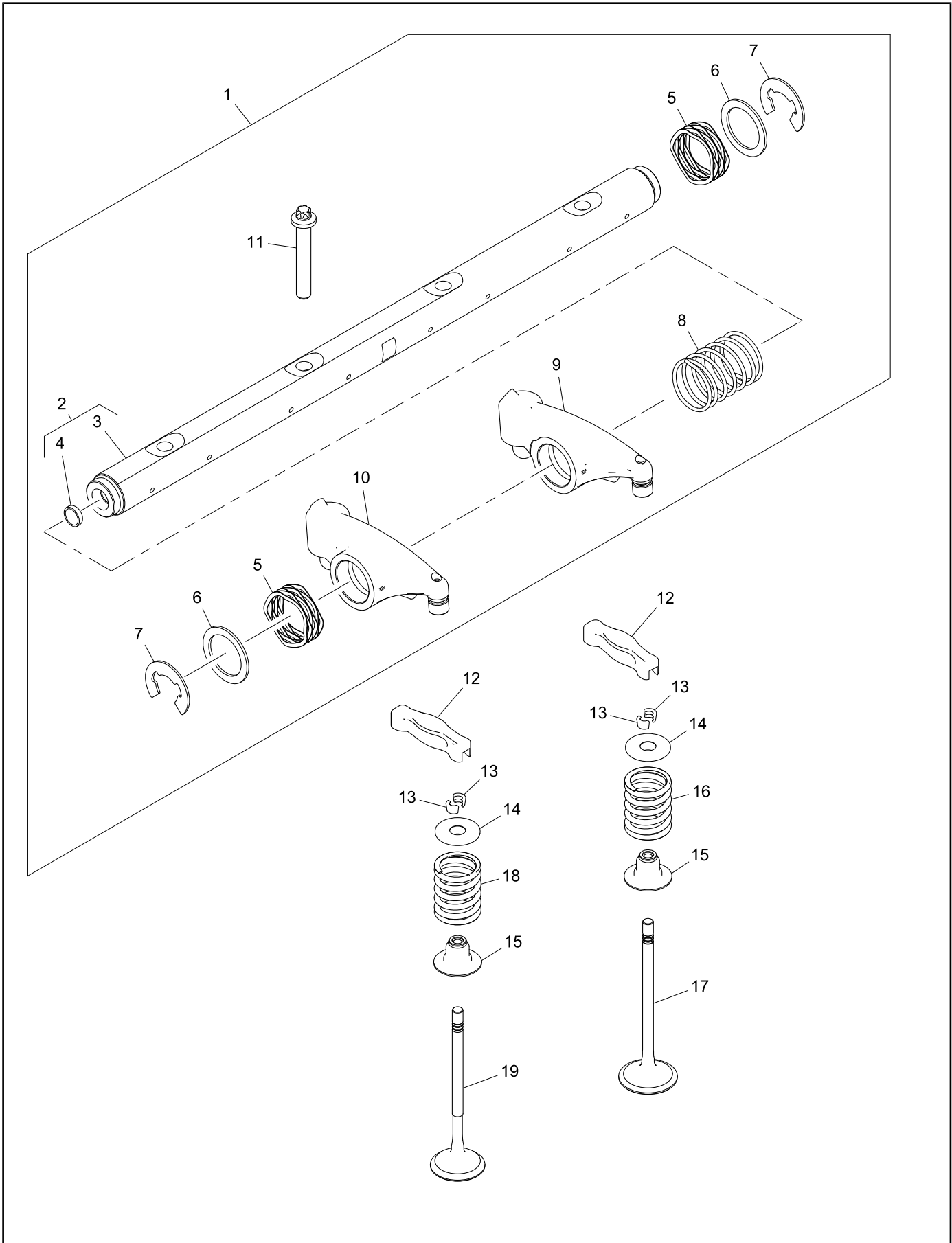
↳ U000801E

4867579

Item	Part No.	References	Qty.	Description	Notes
1	T433581		1	ROCKER ASSEMBLY	
2	T433580		1	ROCKER SHAFT ASSEMBLY	
3		⇒ T433580	1	ROCKER SHAFT	
4	2485A105		2	PLUG	
5	3174A024		2	ROCKER SHAFT SPRING	
6	T432316		2	WASHER	
7	T431090		2	CIRCLIP	
8	T407095		3	ROCKER SHAFT SPRING	
9	T433582		4	ROCKER LEVER	
10	T433583		4	ROCKER LEVER	EXHAUST
11	T432181		4	SCREW	
12	T434681	ⓐ a.	8	BRIDGE PIECE	
13	3142W005		32	VALVE COLLET	
14	3311A025		16	CAP	
15	T431099		16	SEAL - VALVE STEM	
16	T417713		8	VALVE SPRING	
17	T431094		8	INTAKE VALVE	
18	T431131		8	VALVE SPRING	
19	T431095		8	EXHAUST VALVE	

History**a.**

12	T433584		8	BRIDGE PIECE	
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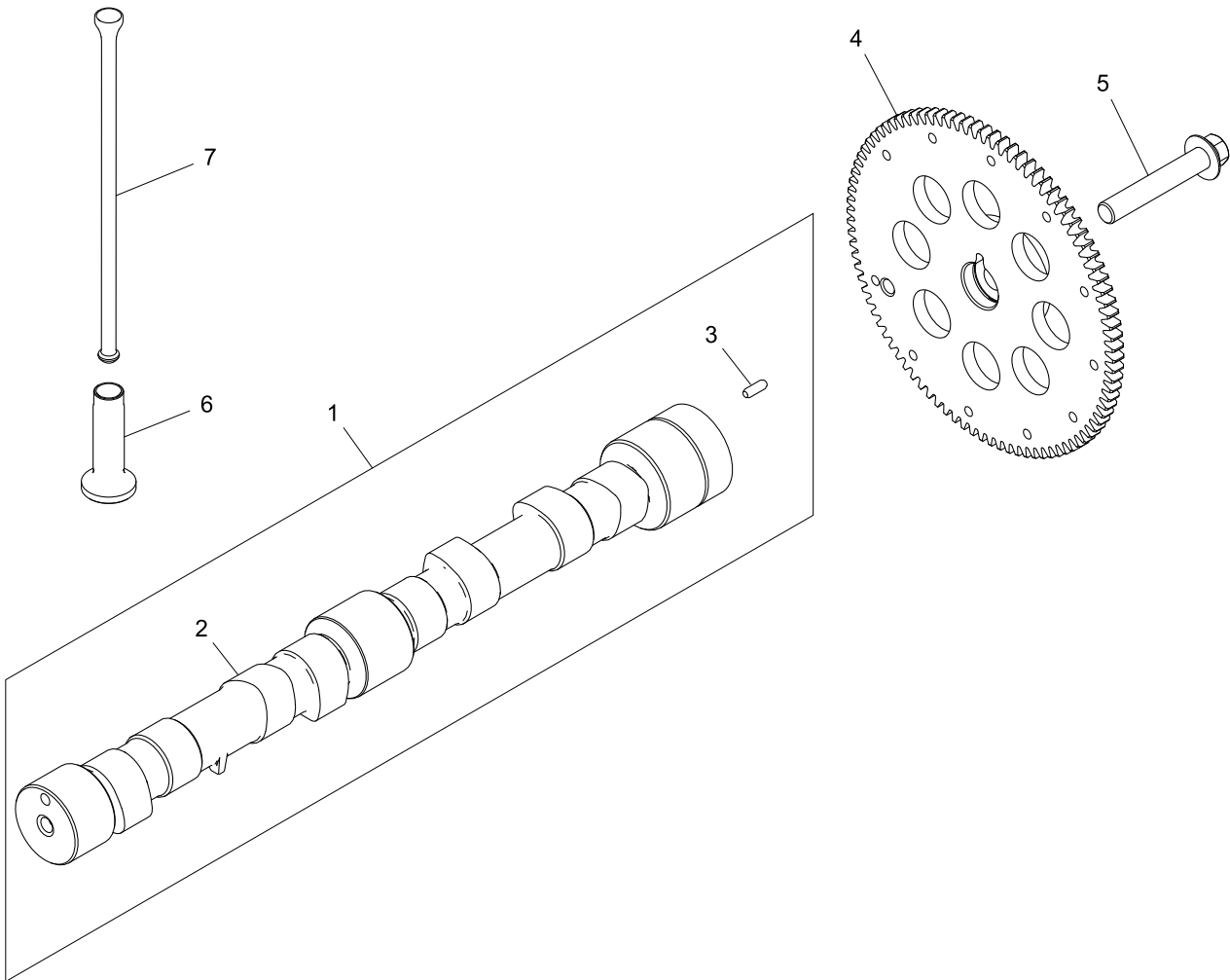
→ U000800E

4867579

Item	Part No.	References	Qty.	Description	Notes
1	T432314	↔	1	ROCKER SHAFT ASSEMBLY	
2	T432244	↔	1	ROCKER SHAFT ASSY - MINOR	
3		⇒ T432244	1	ROCKER SHAFT	
4	2485A105		2	PLUG	
5	3174A024		2	ROCKER SHAFT SPRING	
6	T432316		2	WASHER	
7	T431090		2	CIRCLIP	
8	T407095		3	ROCKER SHAFT SPRING	
9	T432317	↔	4	ROCKER ARM ASSEMBLY	(1) INLET
10	T432319	↔	4	ROCKER ARM ASSEMBLY	(1) EXHAUST
11	T432181		4	SCREW	
12	T431135	↔	8	BRIDGE PIECE	
13	3142W005		32	VALVE COLLET	
14	3311A025		16	CAP	
15	T431099		16	SEAL - VALVE STEM	
16	T417713		8	VALVE SPRING	
17	T431094		8	INTAKE VALVE	
18	T431131		8	VALVE SPRING	
19	T431095		8	EXHAUST VALVE	

Footnotes

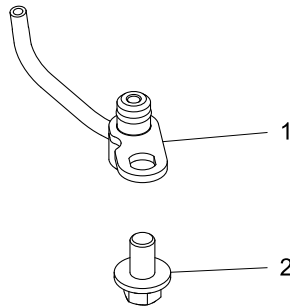
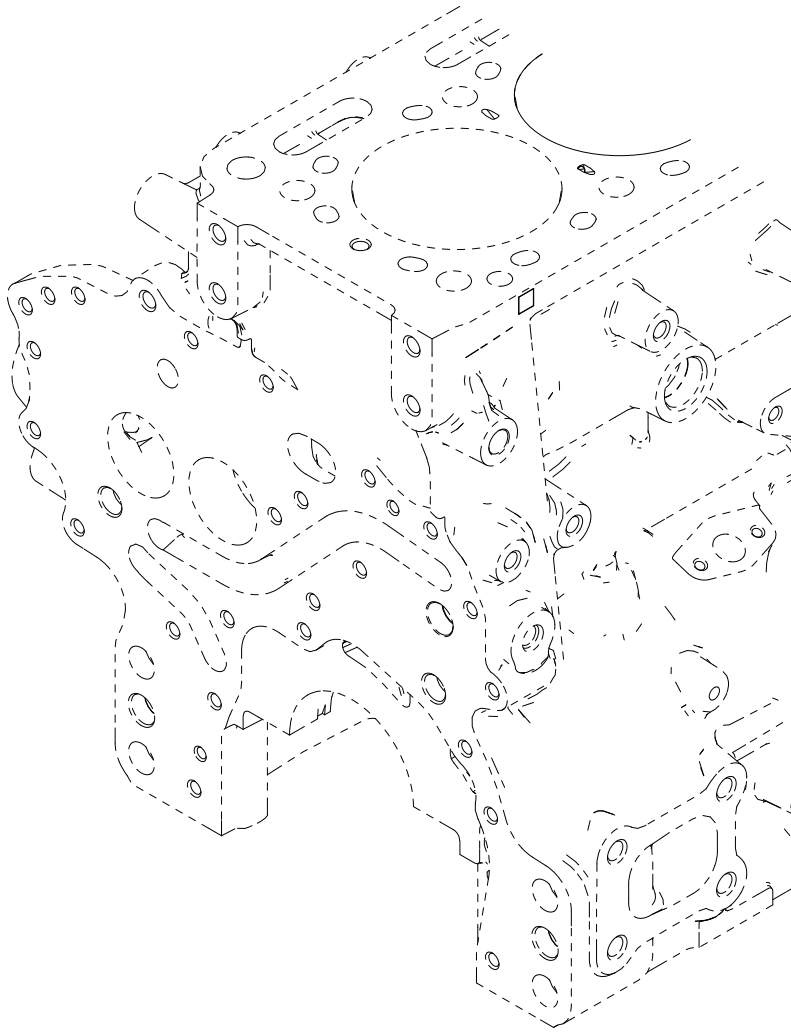
(1) SERVICED AS A COMPLETE UNIT.



Camshaft	Plate A
	5496266

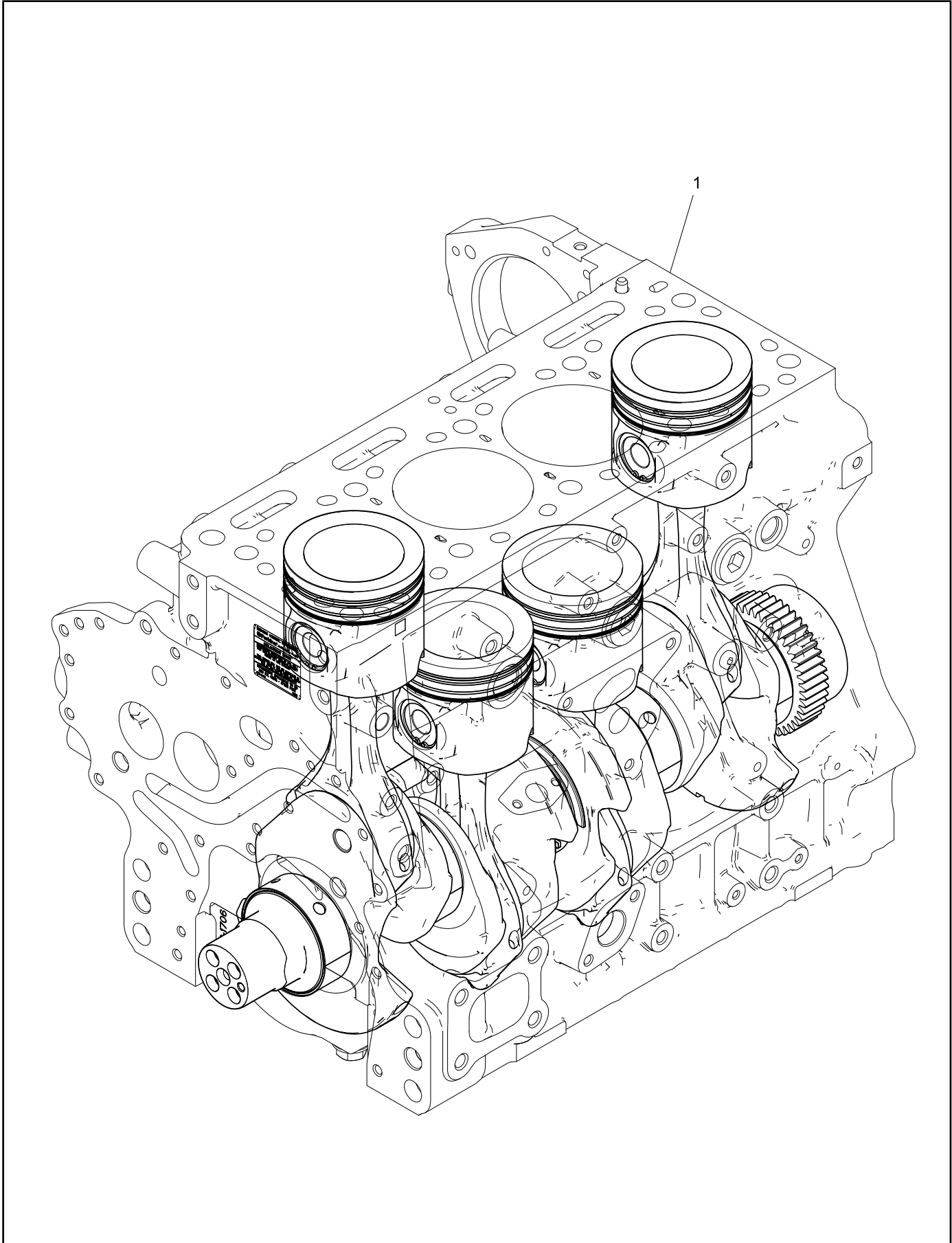
Item	Part No.	References	Qty.	Description	Notes
1	T431321		1	CAMSHAFT	
2		⇒ T431321	1	CAMSHAFT	
3	T431799		1	DOWEL	
4	T431107		1	CAMSHAFT GEAR	
5	2314J712		1	SCREW	
6	T434869	ⓐ a.	8	TAPPET	
7	T431092		8	PUSHROD	

History					
a.					
6	T431091		8	TAPPET	

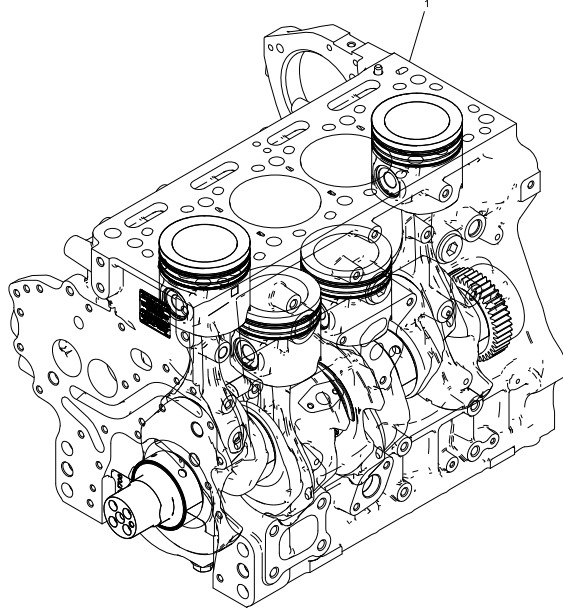


Piston Cooling Jets	Plate A
	4868897

Item	Part No.	References	Qty.	Description	Notes
1	T431105		4	PISTON COOLING JET	
2	2314F001		4	SCREW	



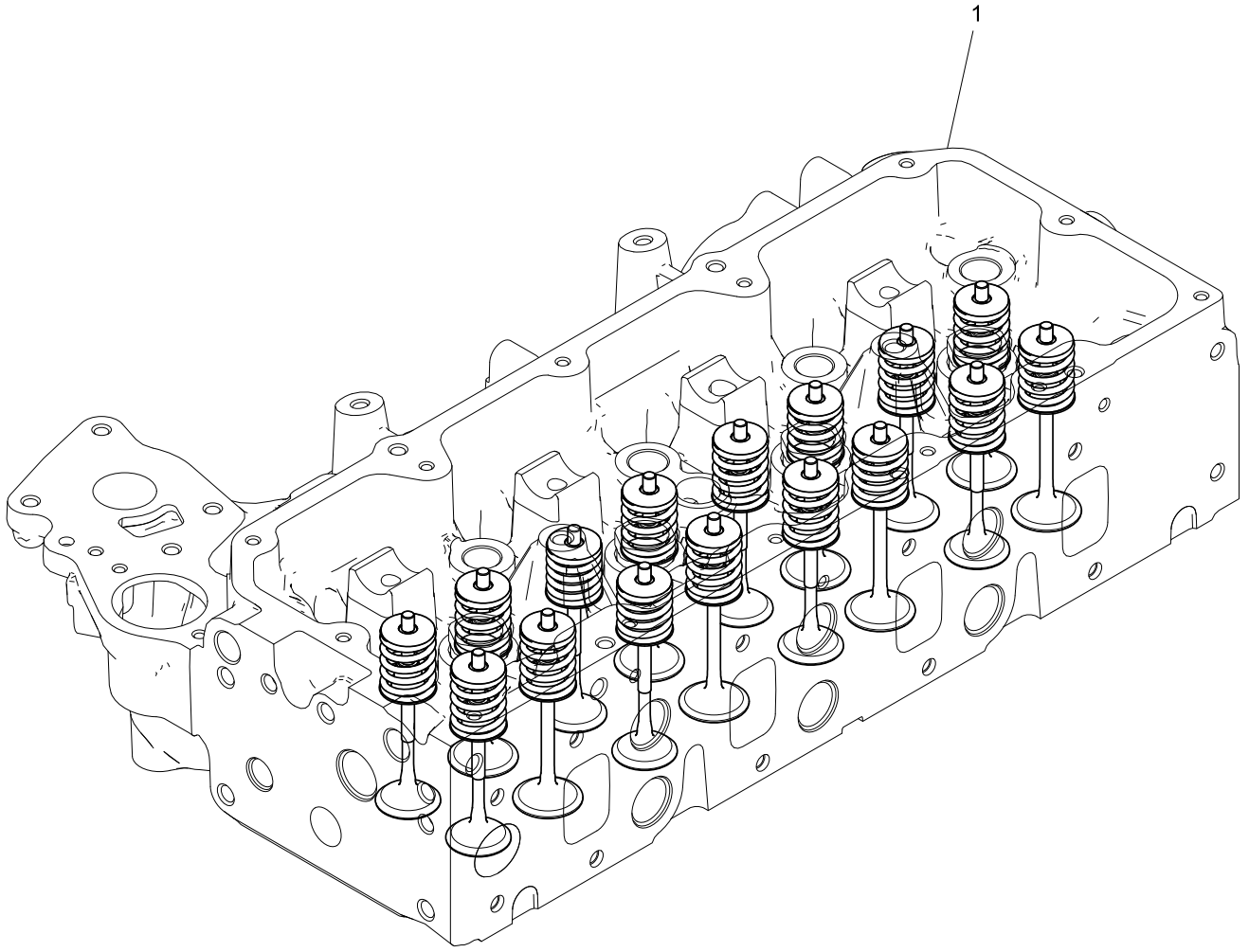
Item	Part No.	References	Qty.	Description	Notes
1	T431951		1	SHORT ENGINE - ASSEMBLY	
2		⇒ T431951	1	CYLINDER BLOCK ASSEMBLY	
3		⇒ T431951	1	CYLINDER BLOCK	
4		⇒ T431951	5	BEARING CAP	
5	3218A511		10	SCREW	
6	2485A109		1	PLUG	
7	CH12474		3	PLUG	
8	CH11621		3	SEAL - O RING	
9	2485A118		2	PLUG	
10	2487A208		2	PLUG	
11	3244A009		2	DOWEL	
12	T423993		1	PLUG	
13	CH10287		1	PLUG	
14	CH10048		1	SEAL - O RING	
15	T431179		1	CRANKSHAFT ASSEMBLY	
16		⇒ T431179	1	CRANKSHAFT	
17		⇒ T431179	1	CRANKSHAFT GEAR	
18	3313A036		1	DOWEL	
19	T431103		1	SHIM	
20	T432989	Ⓢ	1	MAIN BEARING KIT	
21	T432994	Ⓢ	1	THRUST WASHER KIT	
22	T431937	Ⓢ	4	PISTON AND RING KIT	
23		⇒ T431937	1	PISTON	
24		⇒ T431937	1	GUDGEON PIN	
25	T431959		1	CIRCLIP	
26	T431959		1	CIRCLIP	
27	T431944	Ⓢ	1	PISTON RING KIT	
28	T431134		4	CON ROD ASSEMBLY	
29		⇒ T431134	1	CON ROD	
30		⇒ T431134	1	SMALL END BUSH	
31	T400001		2	CON ROD BOLT	(1)
32	T431940	Ⓢ	1	BIG END BEARING KIT	
33	T431105		4	PISTON COOLING JET	
34	2314F001		4	SCREW	
Service Options					
20	T432993	⅔ -0.75MM	1	MAIN BEARING KIT - U/S	
20	T432992	⅔ -0.5MM	1	MAIN BEARING KIT - U/S	
20	T432991	⅔ -0.25MM	1	MAIN BEARING KIT - U/S	
21	T432995	⅔ +0.2MM	1	THRUST WASHER KIT - O/S	



Item	Part No.	References	Qty.	Description	Notes
27	T431945		1	PISTON RING KIT - OVERSIZE	(+)0.50MM
32	T431941	$\frac{+}{-}$ -0.25MM	1	BIG END BRG KIT - U/S	
32	T431943	$\frac{+}{-}$ -0.75mm	1	BIG END BRG KIT - U/S	
32	T431942	$\frac{+}{-}$ -0.5MM	1	BIG END BRG KIT - U/S	
22	T431947		4	PISTON AND RING KIT - O/S	(+)0.50MM

Footnotes

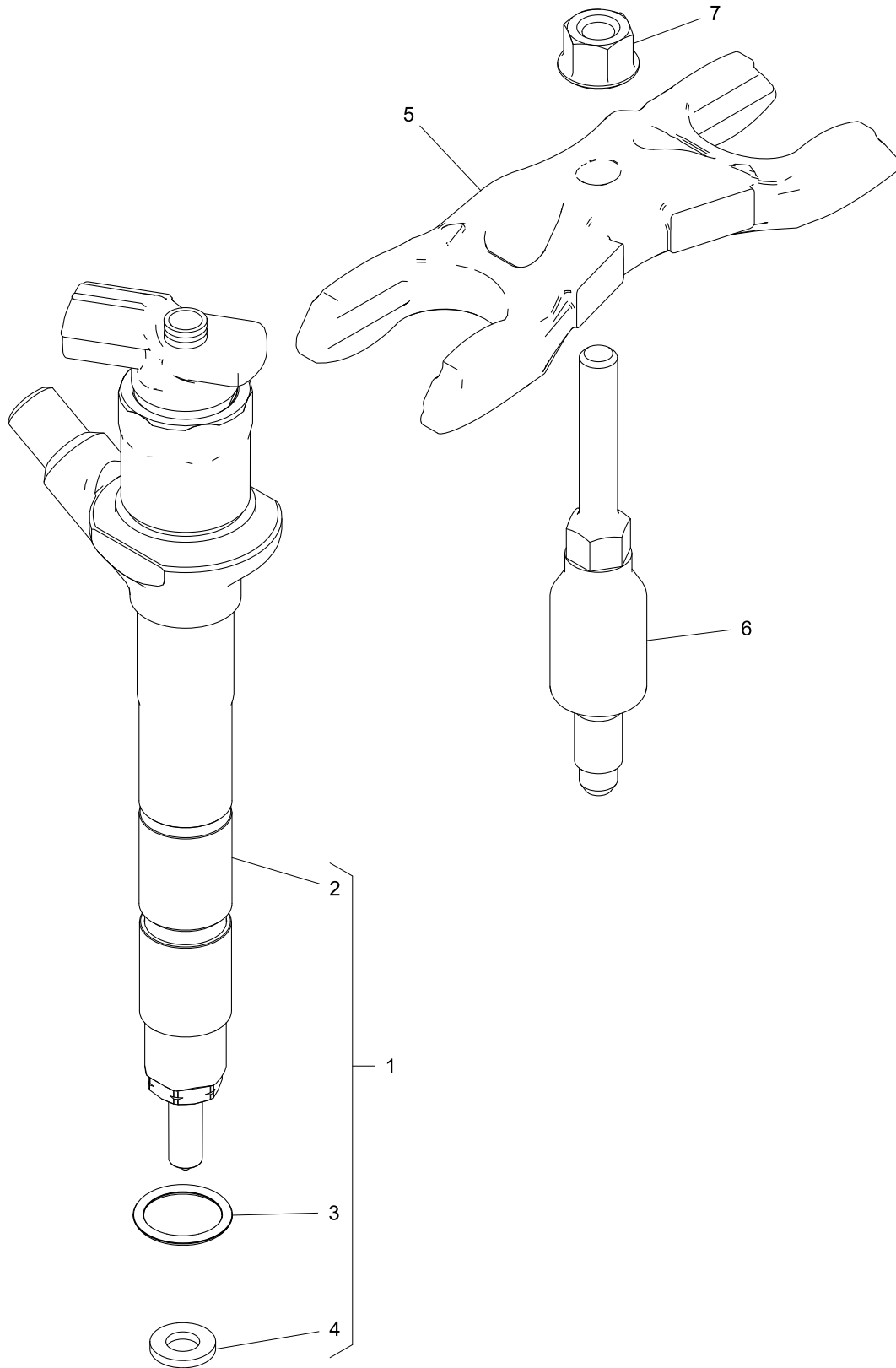
(1) DO NOT RE-USE ONCE REMOVED



Item	Part No.	References	Qty.	Description	Notes
1	T431952		1	CYLINDER HEAD ASSEMBLY	
2		⇒ T431952	1	CYLINDER HEAD ASSEMBLY	
3		⇒ T431952	1	CYLINDER HEAD	
4		⇒ T431952	4	SLEEVE	
5		⇒ T431952	8	SEAL - O RING	
6	T431097		16	VALVE GUIDE	
7	T431301		8	VALVE SEAT INSERT	(2)
8	T431100		8	VALVE SEAT INSERT	(1)
9	2485A517		8	PLUG	
10	2485A509		2	PLUG	
11	2485A524		1	PLUG	
12		⇒ T431952	1	ROCKER ASSEMBLY	
13	3142W005		32	VALVE COLLET	
14	3311A025		16	CAP	
15	T431099		16	SEAL - VALVE STEM	
16	T417713		8	VALVE SPRING	
17	T431094		8	INTAKE VALVE	
18	T431131		8	VALVE SPRING	
19	T431095		8	EXHAUST VALVE	

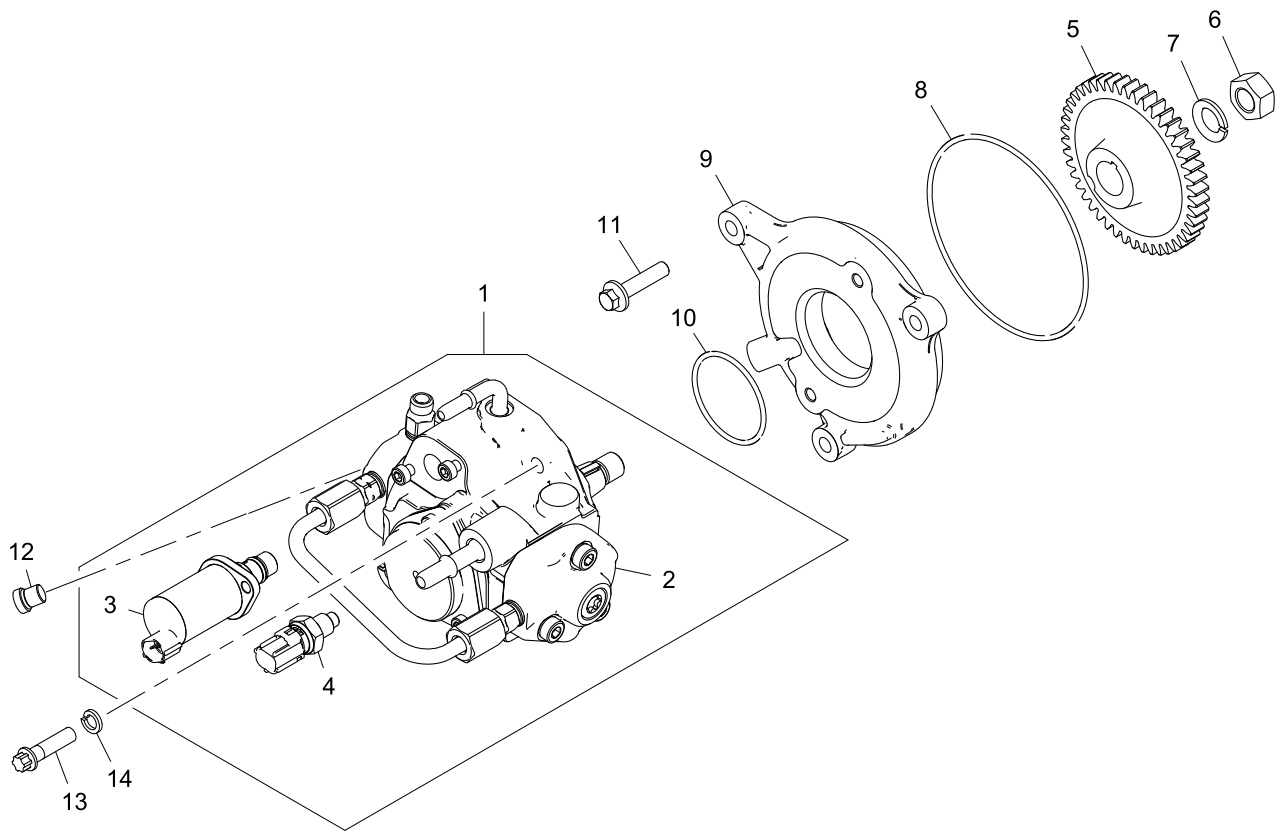
Footnotes

- (1) EXHAUST
- (2) INLET

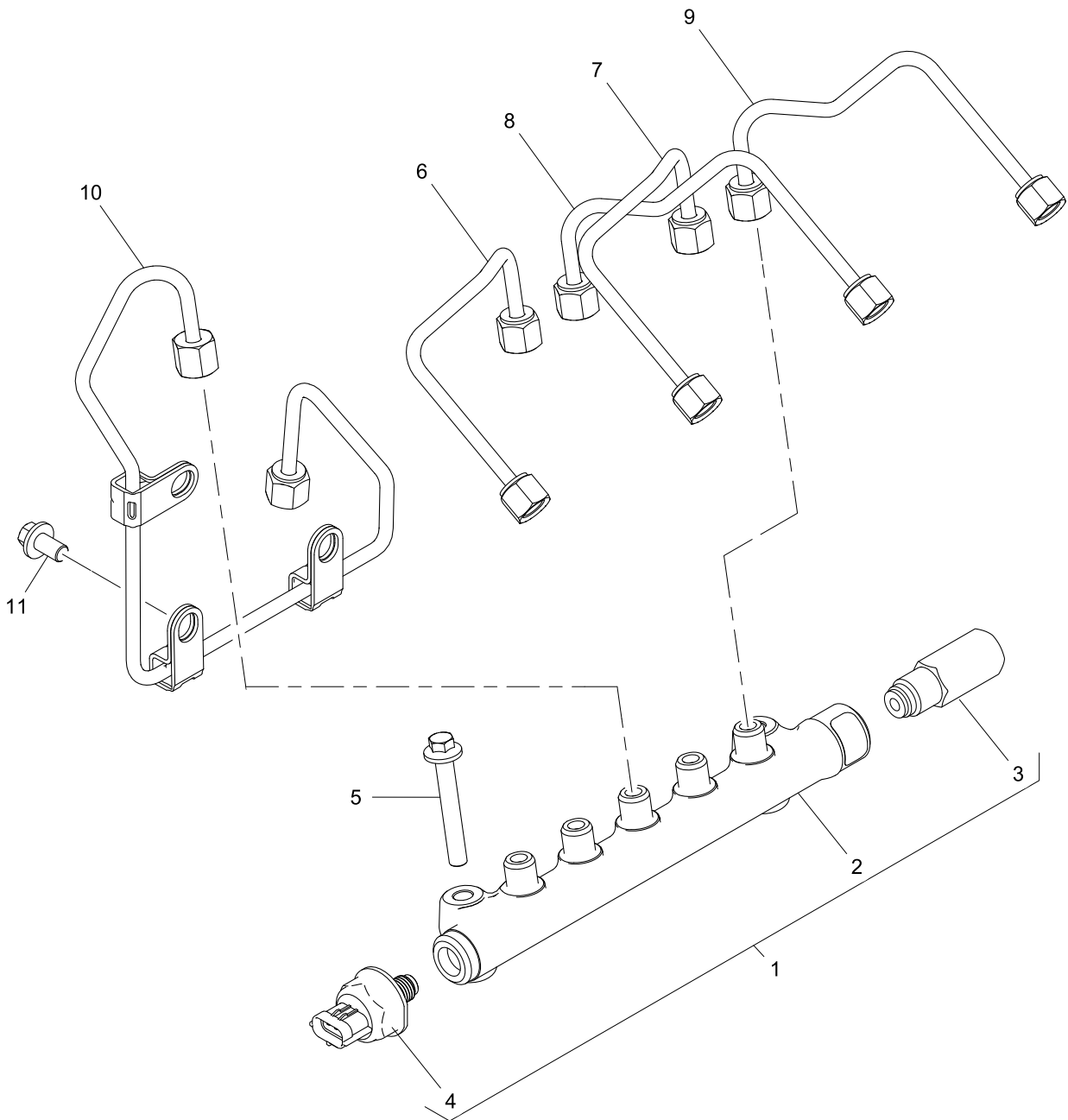


Injector Assembly	Plate A
	4987941

Item	Part No.	References	Qty.	Description	Notes
1	T431143		4	INJECTOR	
2		⇒ T431143	1	INJECTOR	
3	T431142		1	SEAL - INJECTOR	
4	T405750		1	INJECTOR WASHER	
5	T431140		2	INJECTOR CLAMP	
6	T431141		2	STUD	
7	T431130		2	NUT	

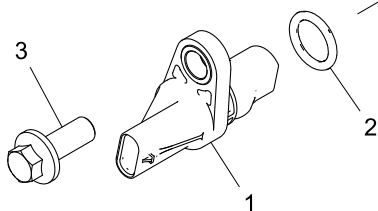
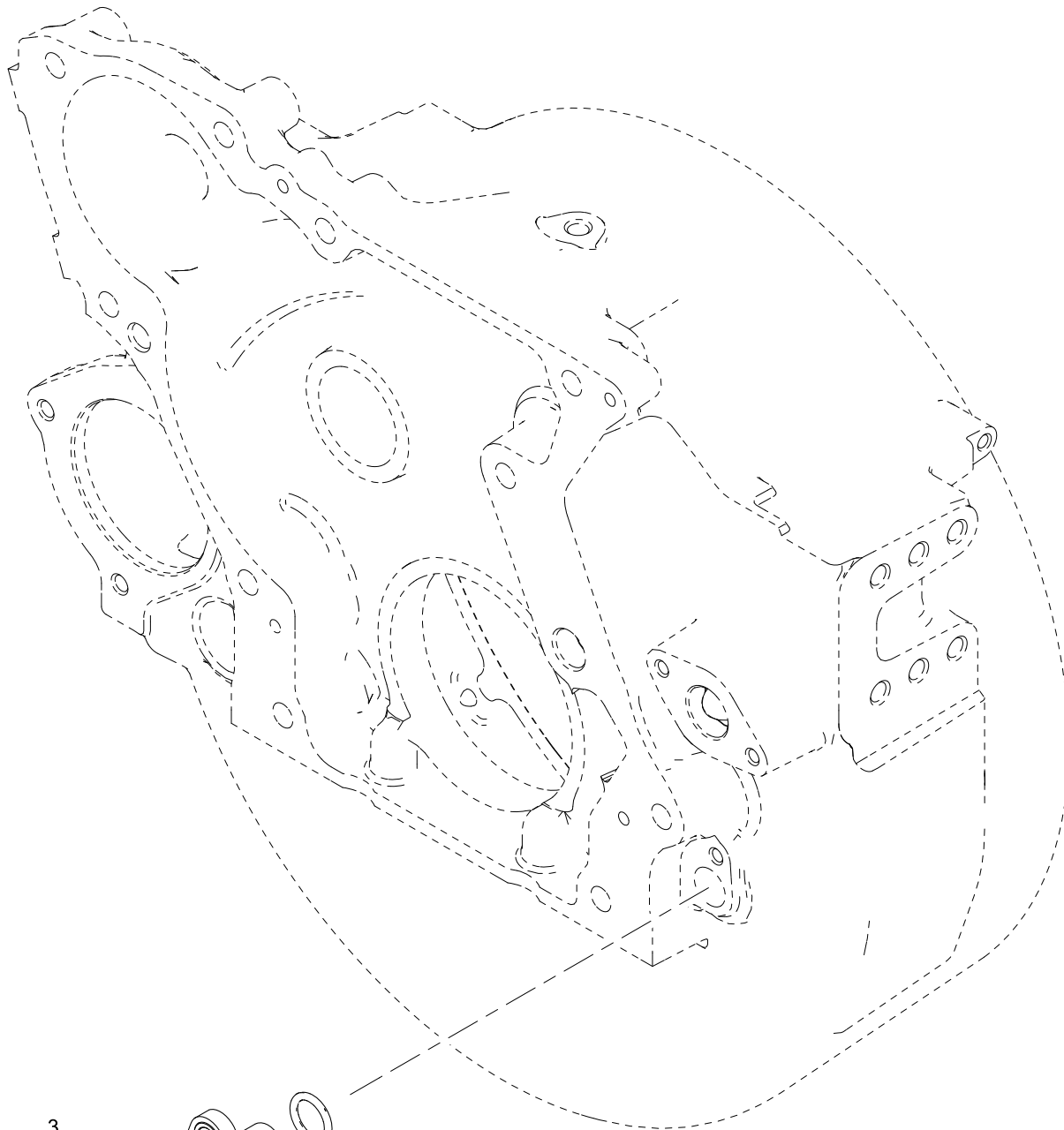


Item	Part No.	References	Qty.	Description	Notes
1	T431170		1	HIGH PRESSURE FUEL PUMP	
2		⇒ T431170	1	HIGH PRESSURE FUEL PUMP	
3	T408502		1	VALVE	
4	T405451		1	TEMPERATURE SENSOR	
5	T431129		1	FUEL INJECTION PUMP GEAR	
6	2318A108		1	NUT	
7	T416136	↖	1	SPRING WASHER	
8	CH10147		1	SEAL - O RING	
9	T431169		1	ADAPTOR	
10	T405938		1	SEAL - O RING	
11	2314H036		3	SCREW	
12	2487A208		1	PLUG	
13	2316A317		2	SCREW	
14	T418476		2	WASHER	



Fuel Rail	Plate A
	5162819

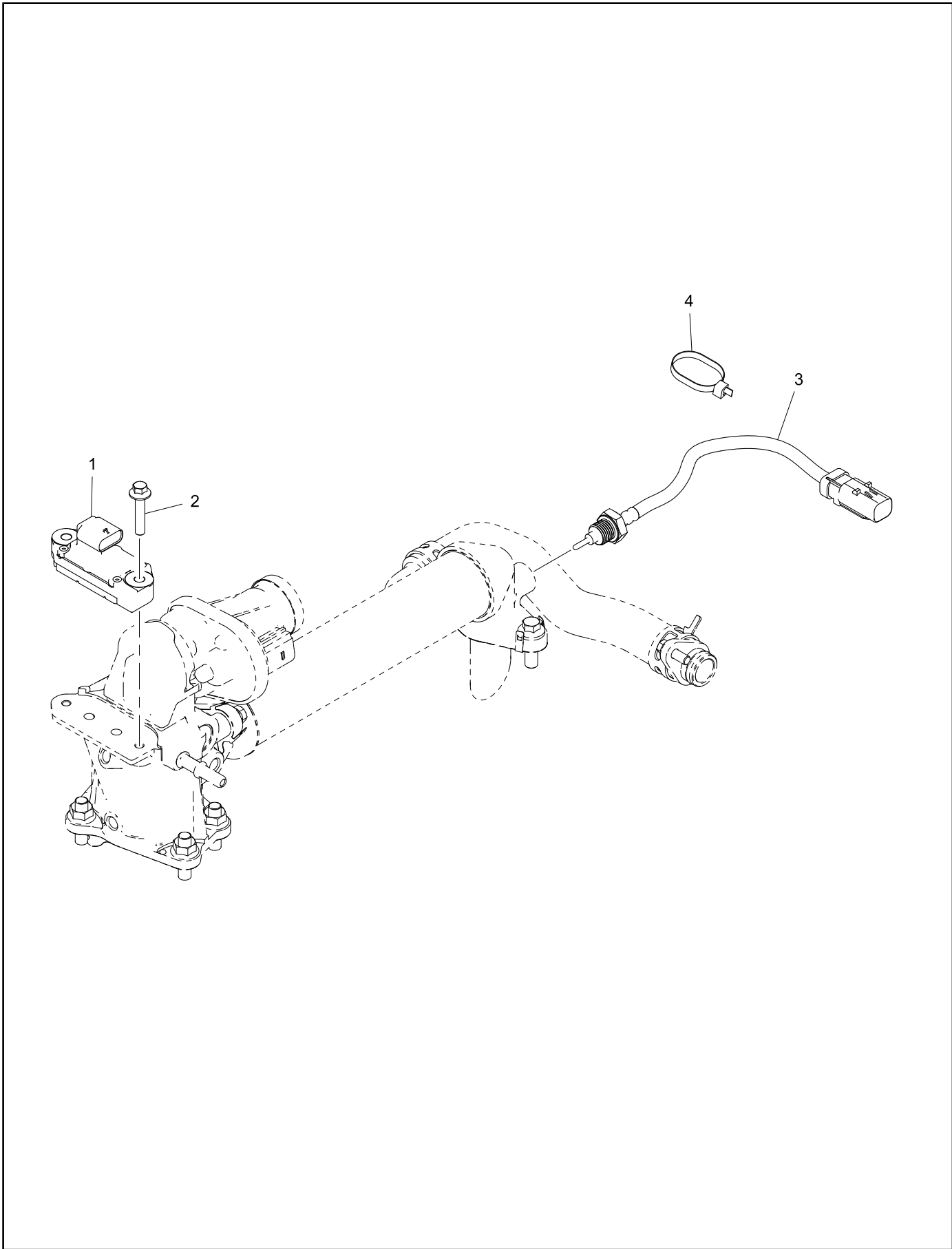
Item	Part No.	References	Qty.	Description	Notes
1	T431306		1	FUEL RAIL	
2		⇒ T431306	1	FUEL RAIL	
3	T408524		1	RELIEF VALVE	
4	T434881		1	SENSOR	
5	2314H010		2	SCREW	
6	T431313		1	PIPE - FUEL INJECTION	NO 1 CYL.
7	T431313		1	PIPE - FUEL INJECTION	NO 2 CYL.
8	T431314		1	PIPE - FUEL INJECTION	NO 3 CYL.
9	T431314		1	PIPE - FUEL INJECTION	NO 4 CYL.
10	T431754		1	PIPE - HP PUMP TO RAIL	
11	2314H031		3	SCREW	



Electronic Sensors	Plate D
	5403113

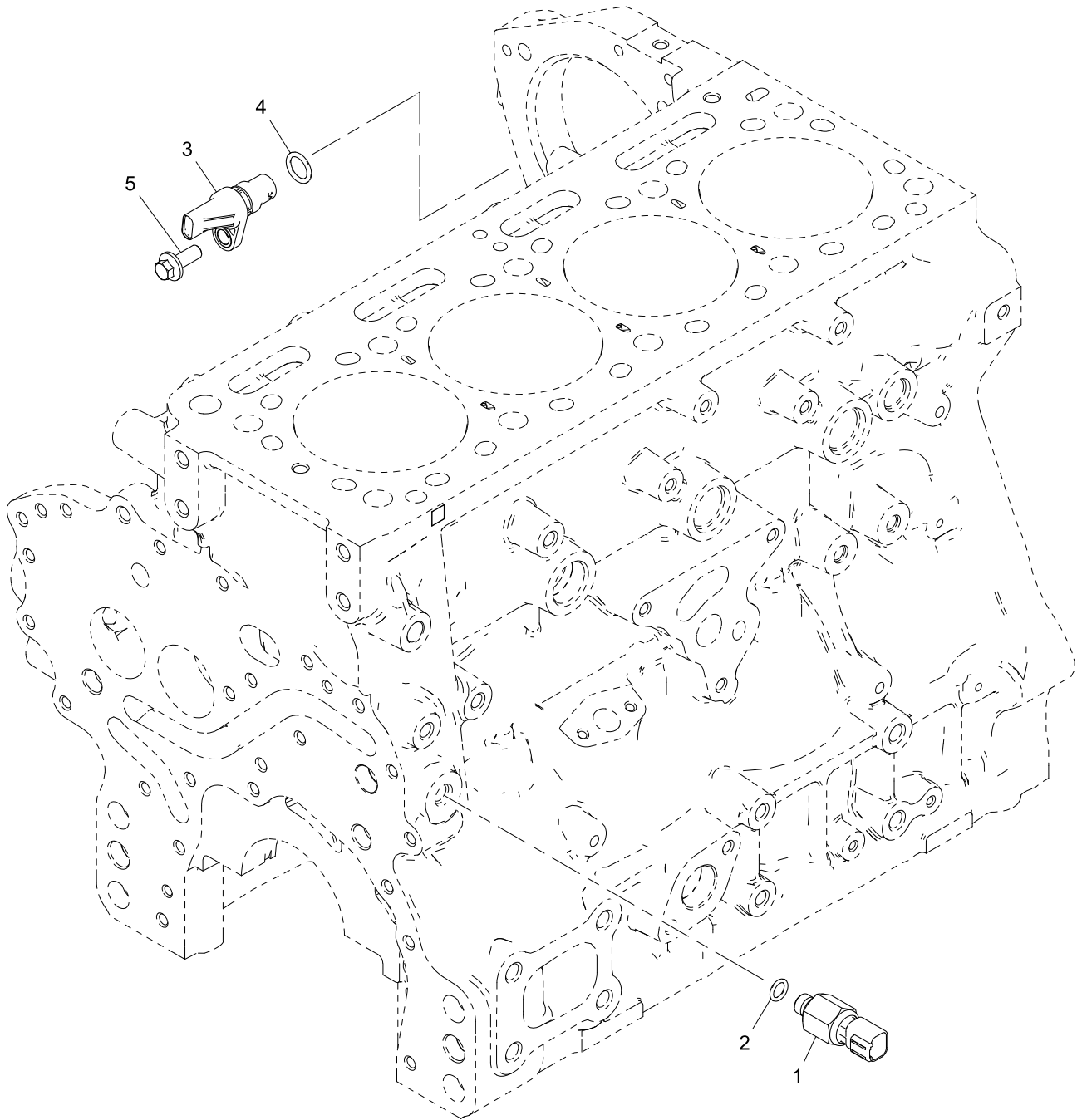
Item	Part No.	References	Qty.	Description	Notes
1	T430705		1	SPEED SENSOR	
2	2415H014		1	SEAL - O RING	(1)
3	2314H033		1	SCREW	

Footnotes	
(1)	DO NOT RE-USE ONCE REMOVED



Electronic Sensors	Plate C
	5403113

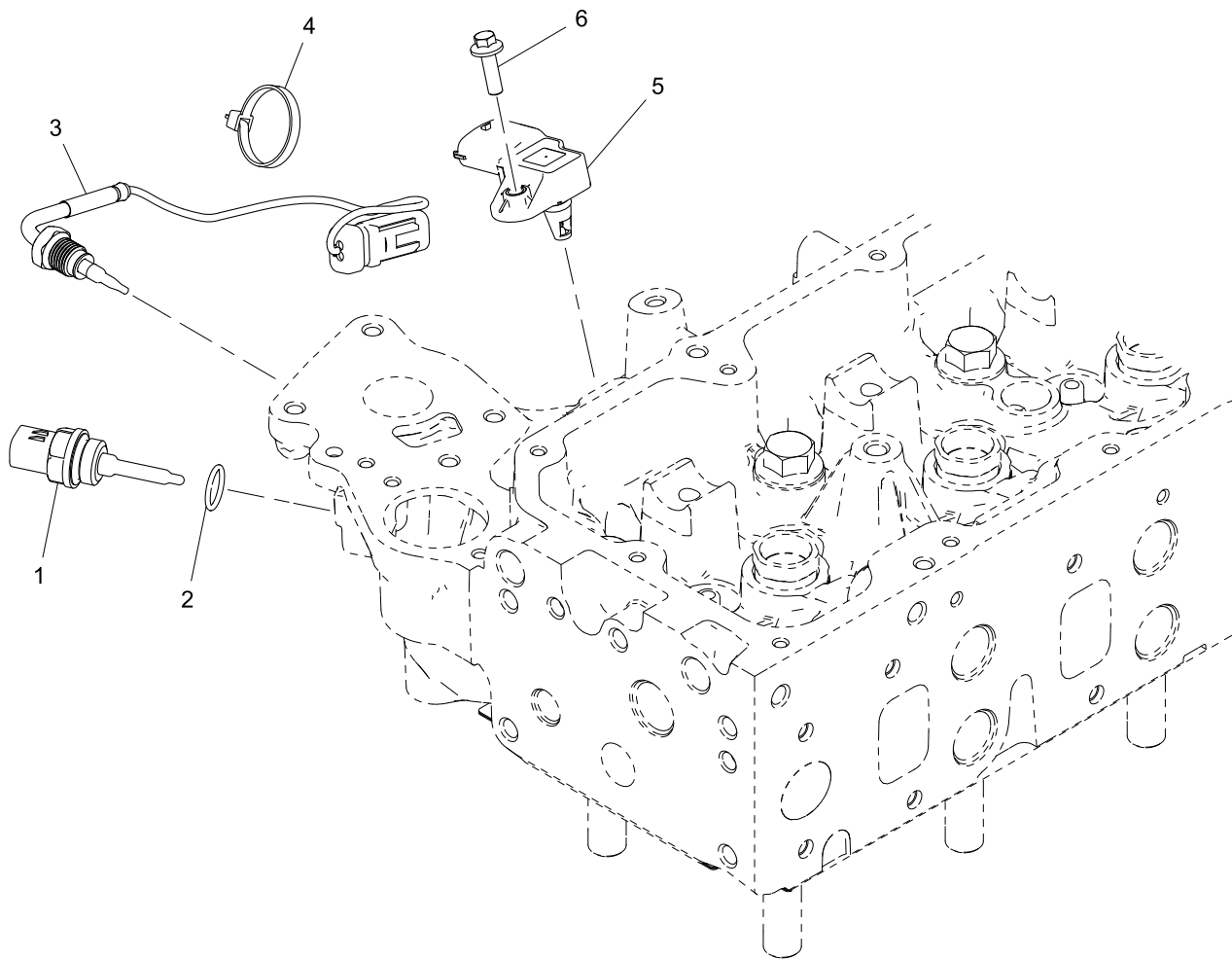
Item	Part No.	References	Qty.	Description	Notes
1	T431240		1	AIR PRESSURE SENSOR	
2	2314F007		2	SCREW	
3	T430531		1	TEMPERATURE SENSOR	
4	T409408		2	CABLE TIE	



Electronic Sensors	Plate B
	5403113

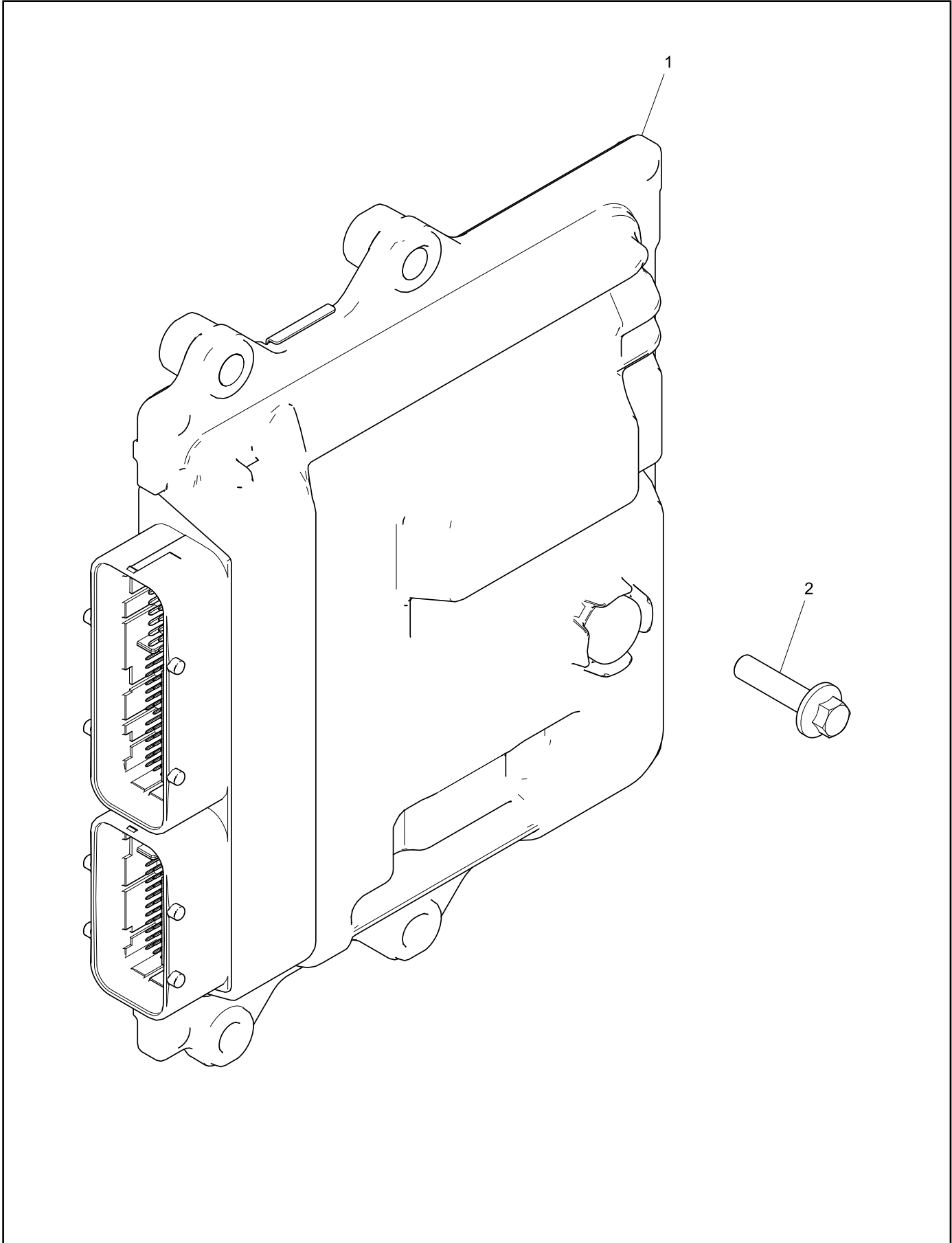
Item	Part No.	References	Qty.	Description	Notes
1	T431758		1	OIL PRESSURE SENSOR	
2	2415H002		1	SEAL - O RING	
3	T430705		1	SPEED SENSOR	
4	2415H014		1	SEAL - O RING	(1)
5	2314H033		1	SCREW	

Footnotes	
(1)	DO NOT RE-USE ONCE REMOVED



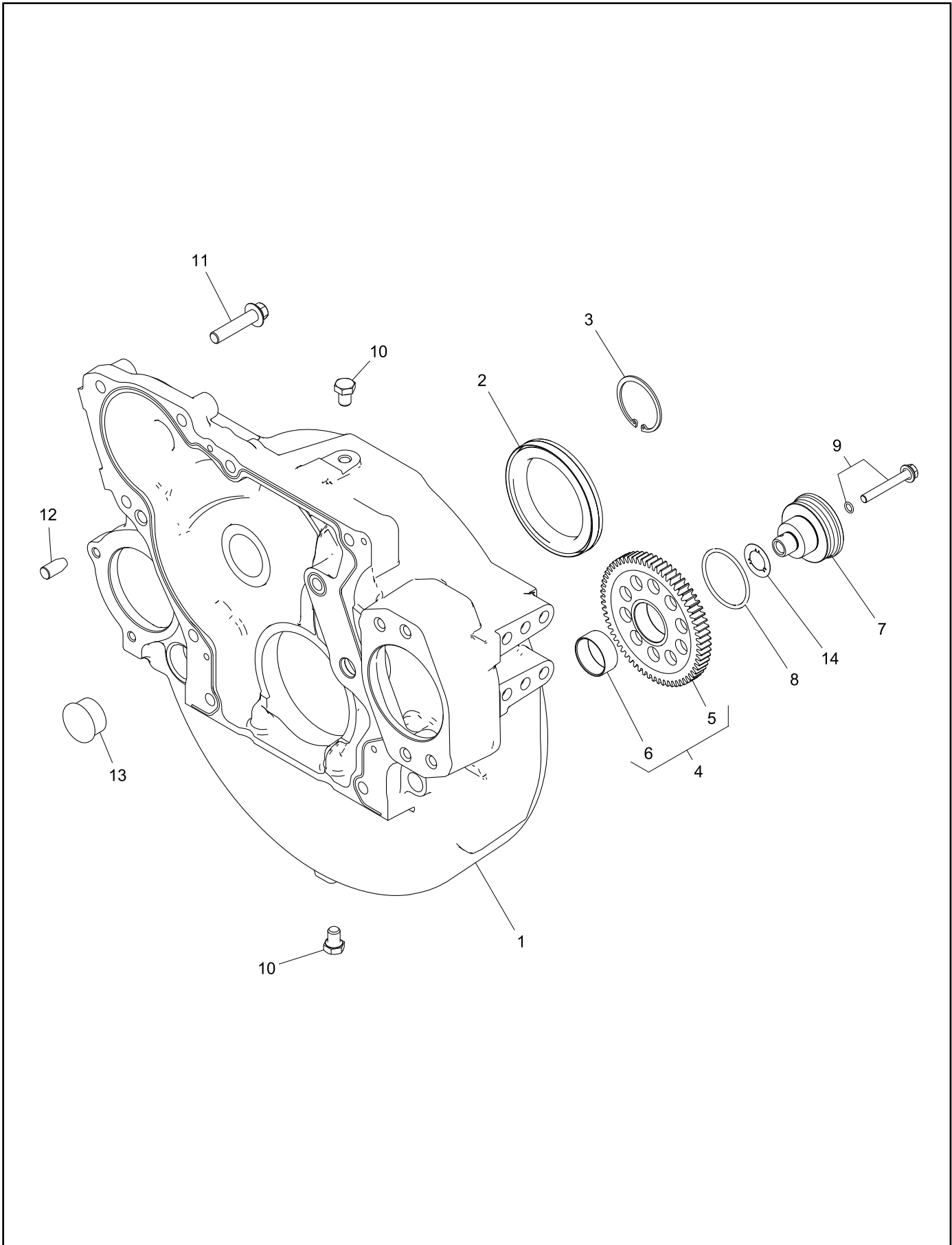
Electronic Sensors	Plate A
	5403113





Item	Part No.	References	Qty.	Description	Notes
1	T407354		1	TEMPERATURE SENSOR	
2	2415H003		1	SEAL - O RING	
3	T431857		1	TEMPERATURE SENSOR	
4	T409408		1	CABLE TIE	
5	T431796		1	SENSOR	
6	2314F005		1	SCREW	



Engine Control Module	Plate A
	5401539

Item	Part No.	References	Qty.	Description	Notes
1	T431400		1	CONTROL UNIT	
2	2314F007		2	SCREW	



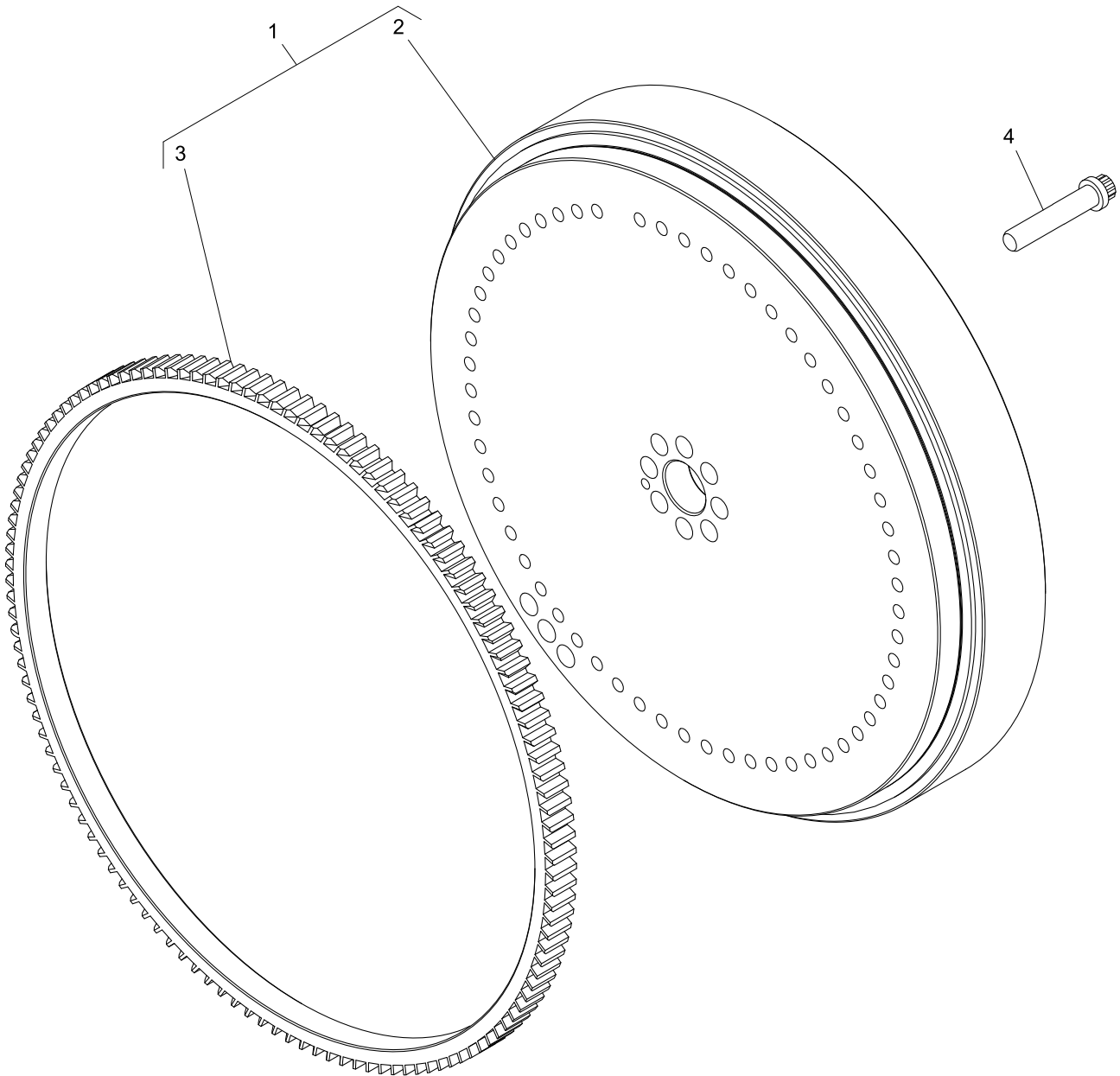
Item	Part No.	References	Qty.	Description	Notes
1	T433661		1	FLYWHEEL HOUSING	
2	T434692	 a.	1	SEAL - REAR END OIL	
3	T432975		1	CIRCLIP	
4	T434138	 b.	1	IDLER GEAR	
5		⇒ T434138	1	IDLER GEAR	
6	T434739		1	BEARING	
7	T434447	 b.	1	SHAFT	
8	T402318		1	SEAL - O RING	
9	T433494		1	BOLT	
10	T413380	 b.	2	PLUG	
11	2314J709		10	SCREW	
12	3245A011		1	DOWEL	
13	2487A452		1	PLUG	
14	T434446		1	SHIM	

History**a.**




2	T431138		1	SEAL - REAR END OIL
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b.

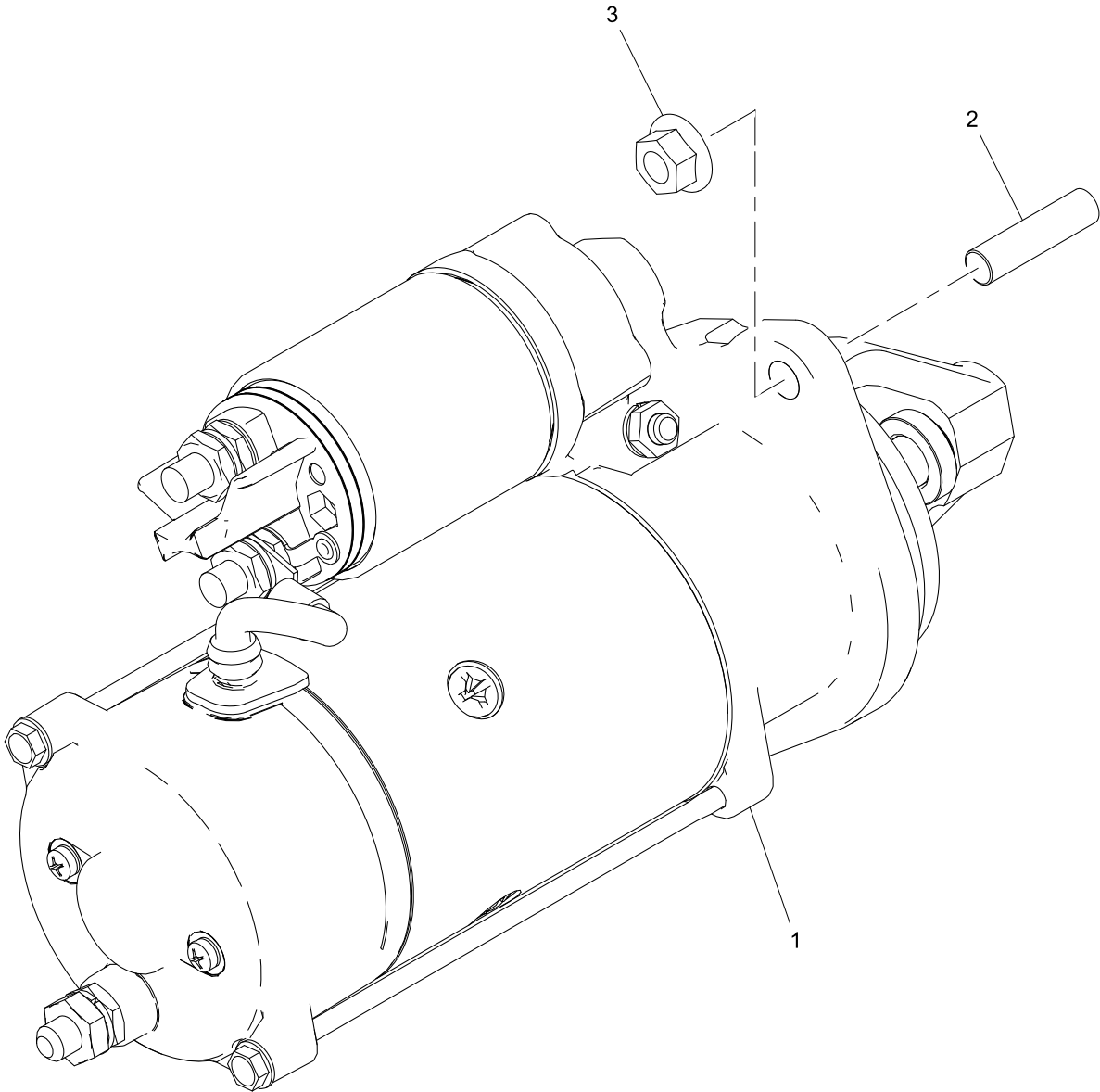
4	T431868		1	IDLER GEAR
7	T431871		1	SHAFT
10	CH10922		2	BOLT



Flywheel & Starter Ring	Plate A
	5026311

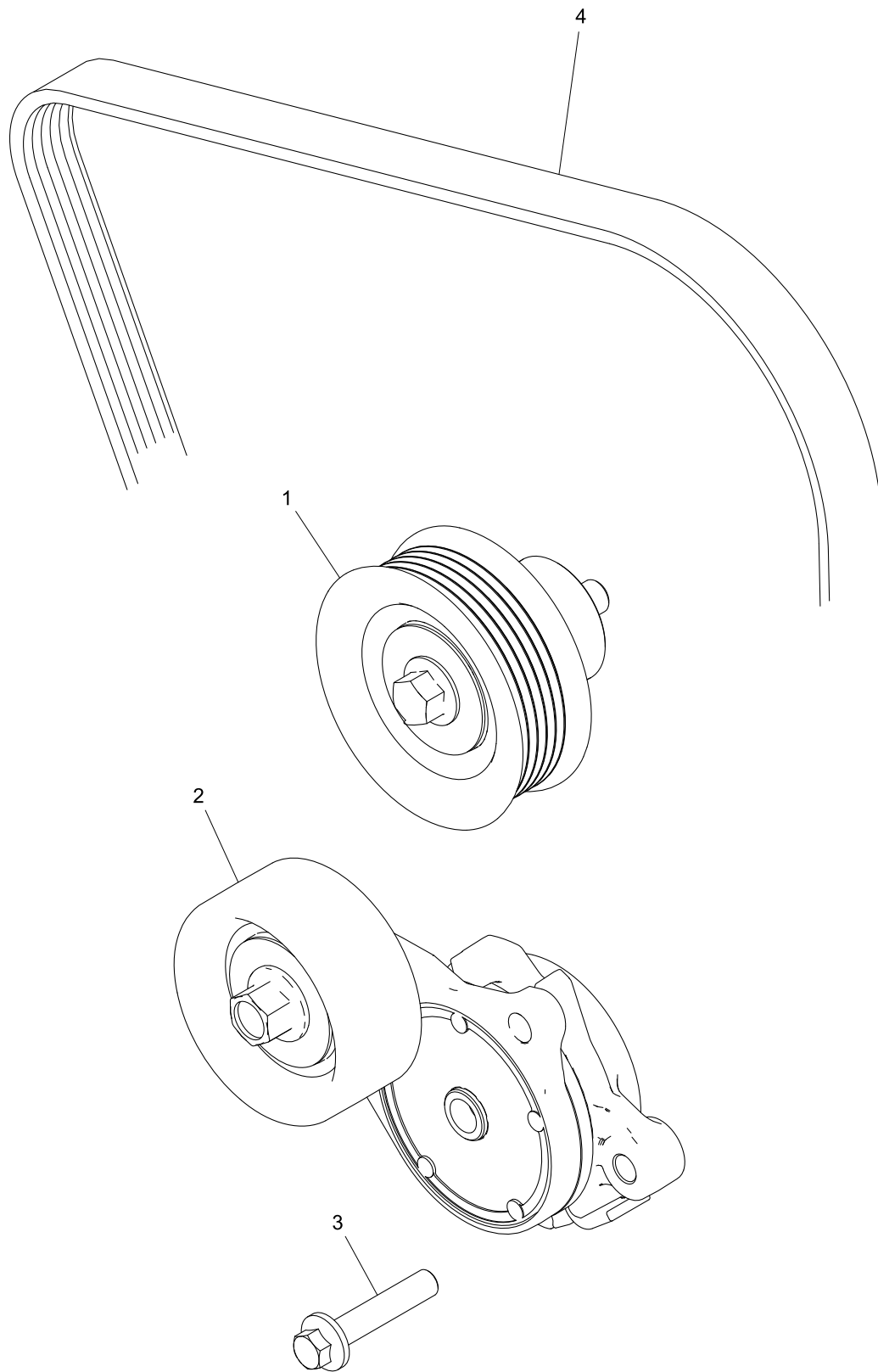
Item	Part No.	References	Qty.	Description	Notes
1	T434689	 b.	1	FLYWHEEL ASSEMBLY	
2		⇒ T434689	1	FLYWHEEL	
3	31162121	 b.	1	STARTER RING	
4	T435139	 a.	8	FLYWHEEL BOLT	

History					
a.					
4	T431762		8	FLYWHEEL BOLT	
b.					
1	T431834		1	FLYWHEEL ASSEMBLY	
3	31162121		1	STARTER RING	



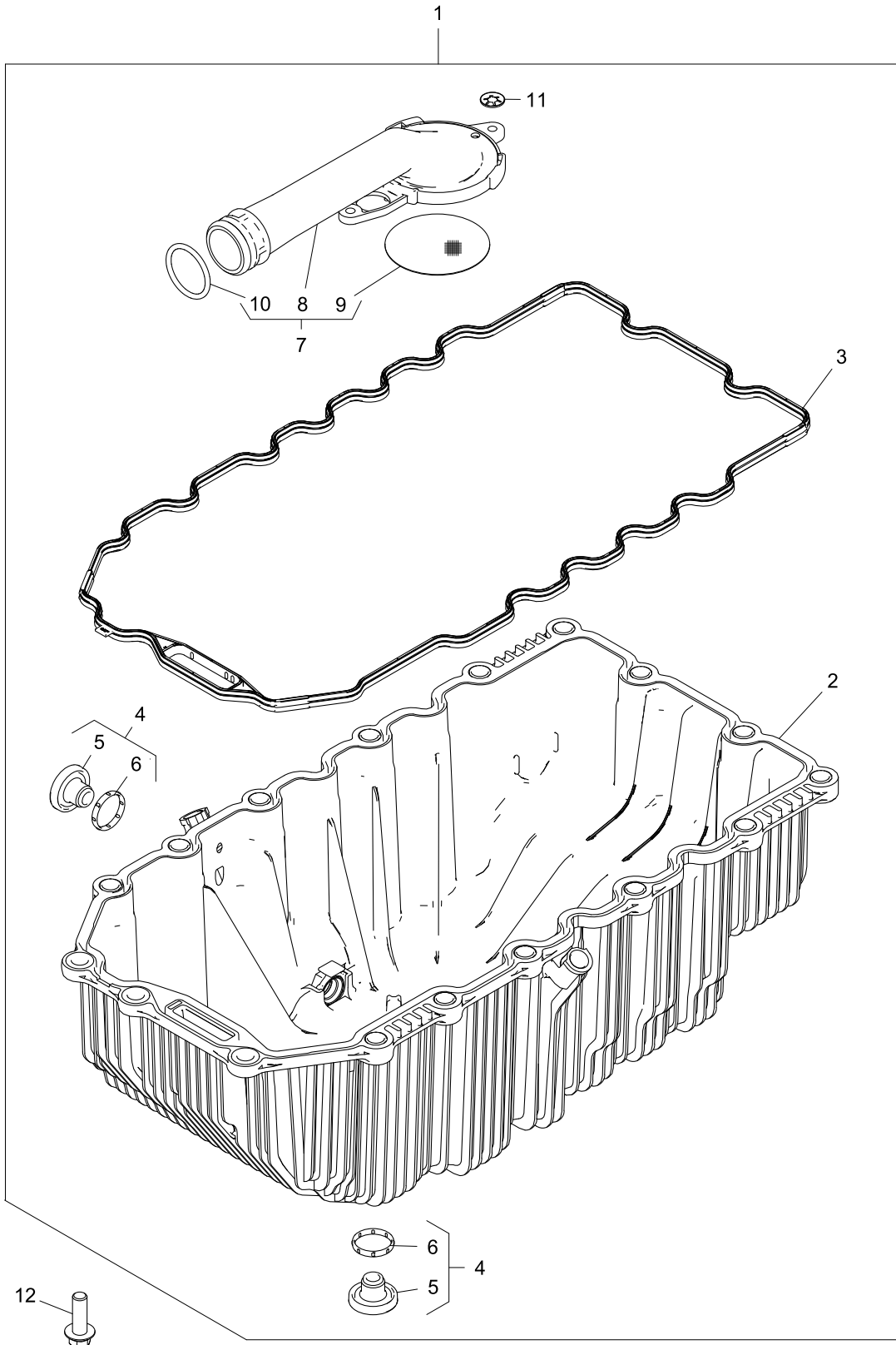
Starter Motor	Plate A
	4874290

Item	Part No.	References	Qty.	Description	Notes
1	T406716		1	STARTER MOTOR	
2	2313C077		3	STUD	
3	2318A604		3	NUT	



Fan Drive Hardware	Plate A
	5044787

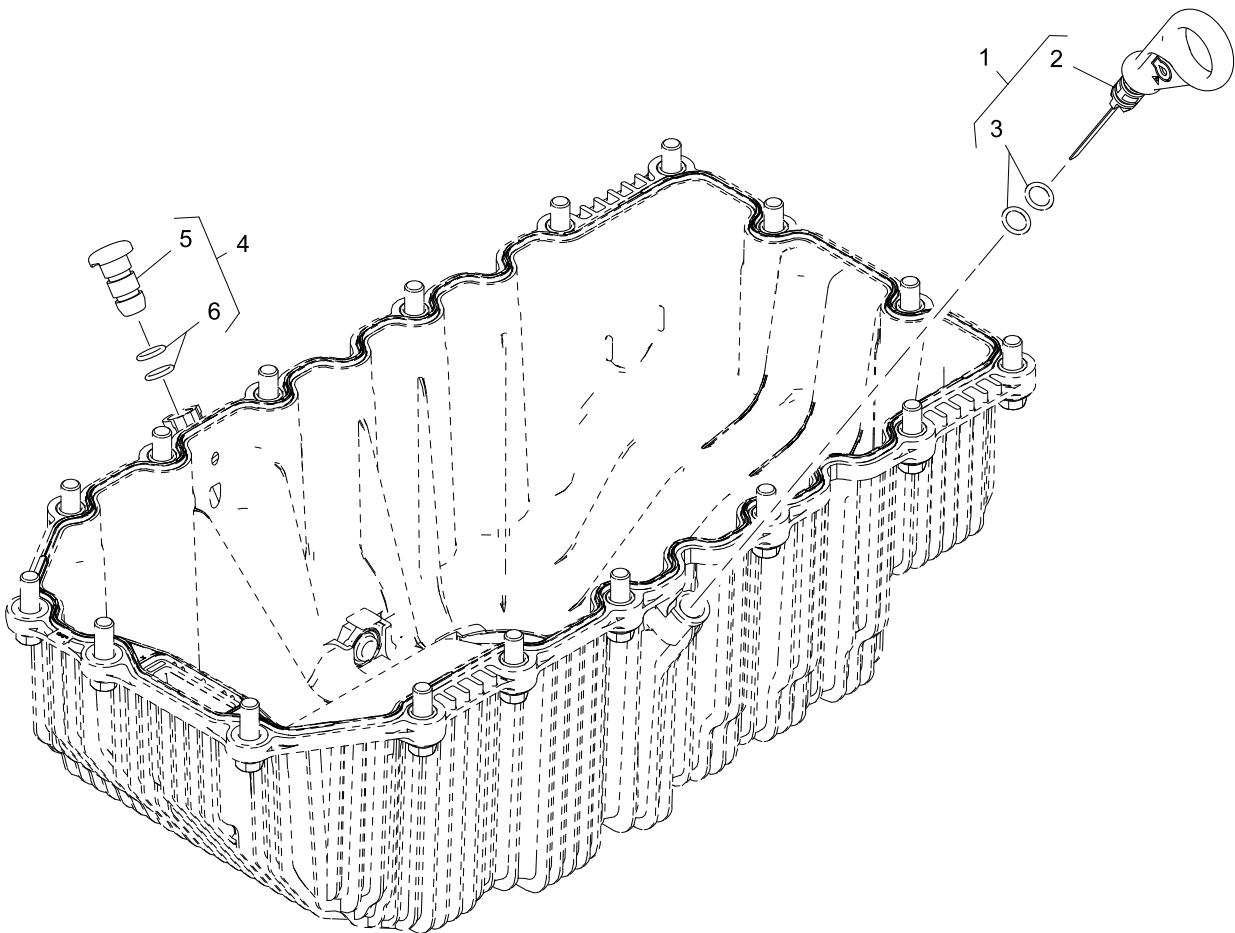
Item	Part No.	References	Qty.	Description	Notes
1	T431353		1	IDLER PULLEY	
2	T431171		1	TENSIONER	
3	2314H007		2	SCREW	
4	5203850		1	BELT	



Sump	Plate A
	5182995

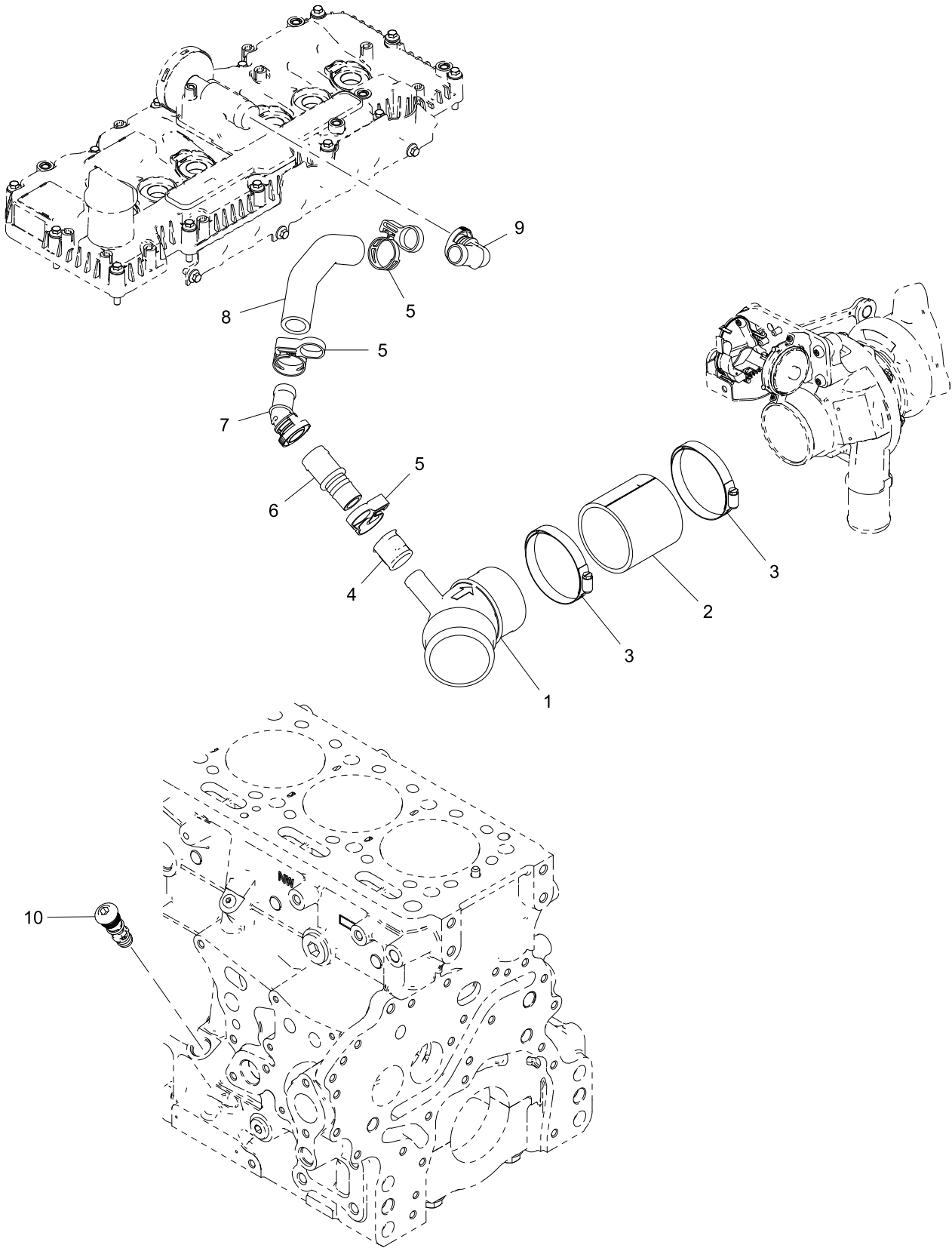
Item	Part No.	References	Qty.	Description	Notes
1	T431769		1	SUMP	
2		⇒ T431769	1	SUMP	(1)
3	T431755		1	SEAL - SUMP	
4	T431756		2	SUMP DRAIN PLUG	
5		⇒ T431756	1	DRAIN PLUG	
6	T431223		1	SEAL	
7		⇒ T431769	1	STRAINER ASSEMBLY	(1)
8		⇒ T431769	1	PIPE - OIL SUCTION	(1)
9		⇒ T431769	1	STRAINER	(1)
10		⇒ T431769	1	SEAL	(1)
11		⇒ T431769	2	PLATE LOCKING	(1)
12	2314J204		17	SCREW	

Footnotes	
(1)	SERVICED AS A COMPLETE UNIT.



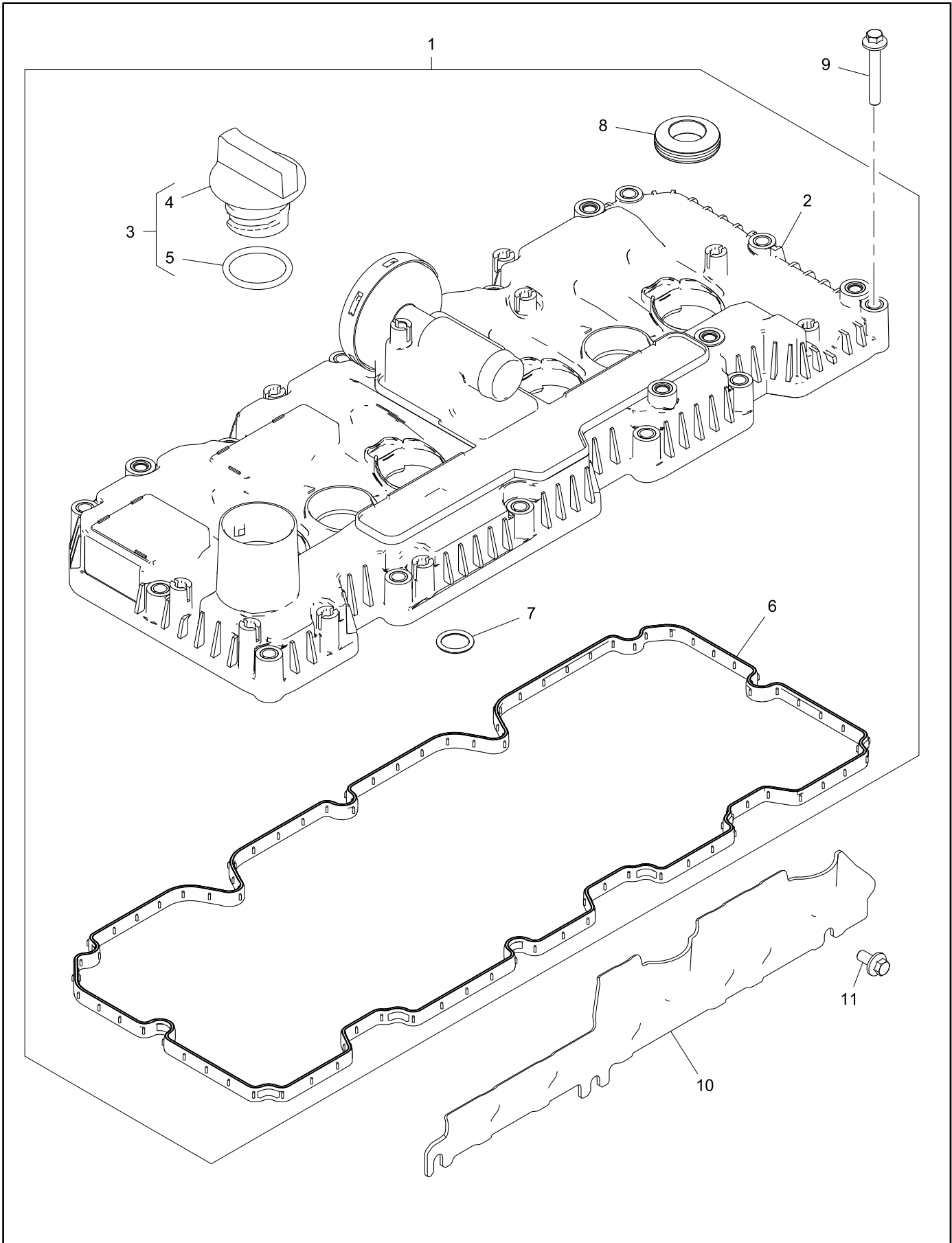
Dipstick & Tube	Plate A
	5026367

Item	Part No.	References	Qty.	Description	Notes
1	T431766		1	DIPSTICK ASSEMBLY	
2		⇒ T431766	1	DIPSTICK	
3	T431894		2	SEAL - O RING	
4	T431294		1	PLUG	
5		⇒ T431294	1	PLUG	
6	T408416		2	SEAL - O RING	



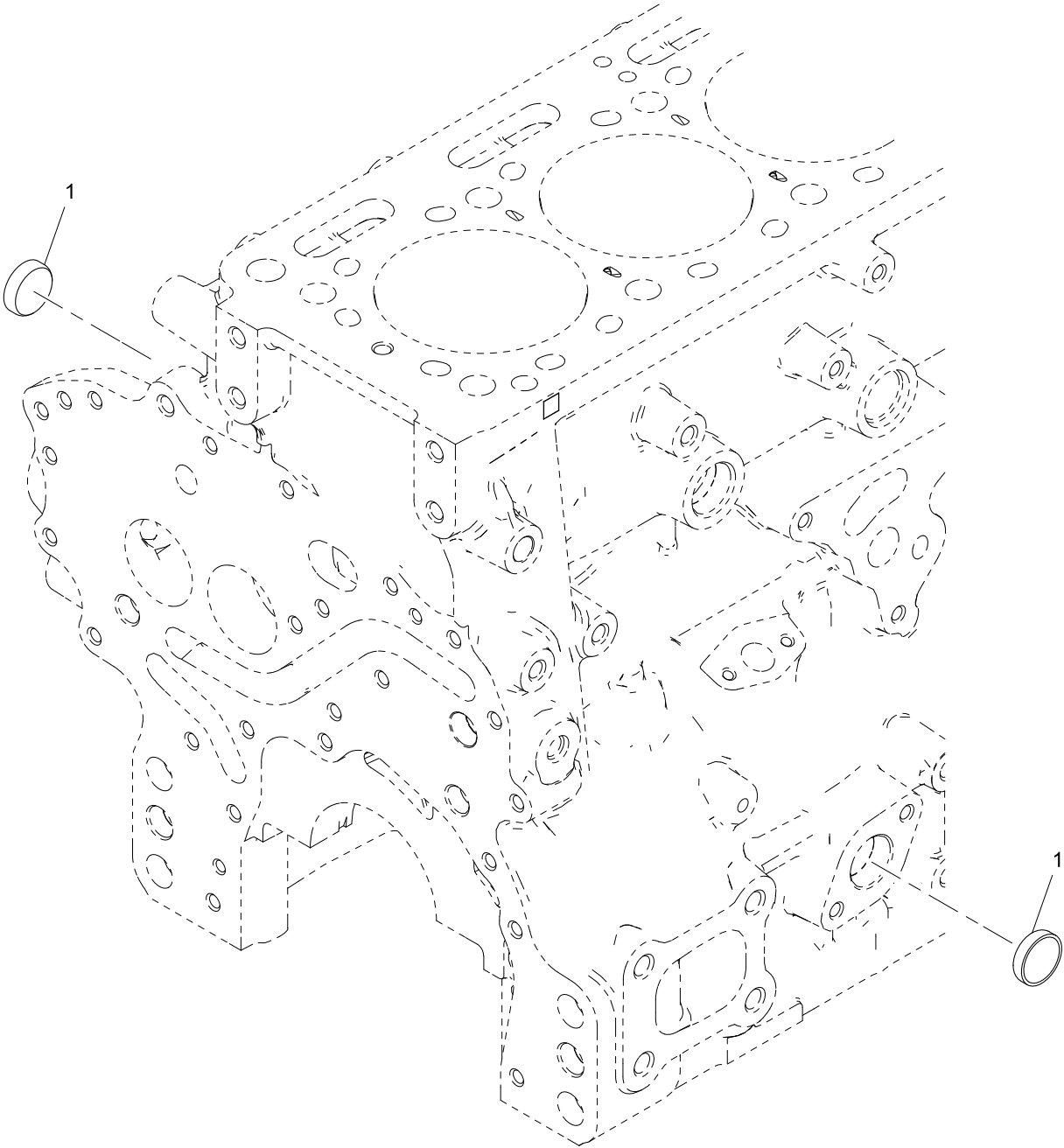
Breather	Plate A
	5395492

Item	Part No.	References	Qty.	Description	Notes
1	T432035		1	PIPE - AIR	
2	T432333		1	HOSE - AIR	
3	2481D075		2	HOSE CLIP	
4	135591250		1	BUSH	
5	T428346		3	HOSE CLIP	
6	T432034		1	ADAPTOR	
7	T432334		1	CONNECTION	
8	T432039		1	PIPE - BREATHER	
9	T432032		1	CONNECTION	
10	T431350		1	BREATHER VALVE	



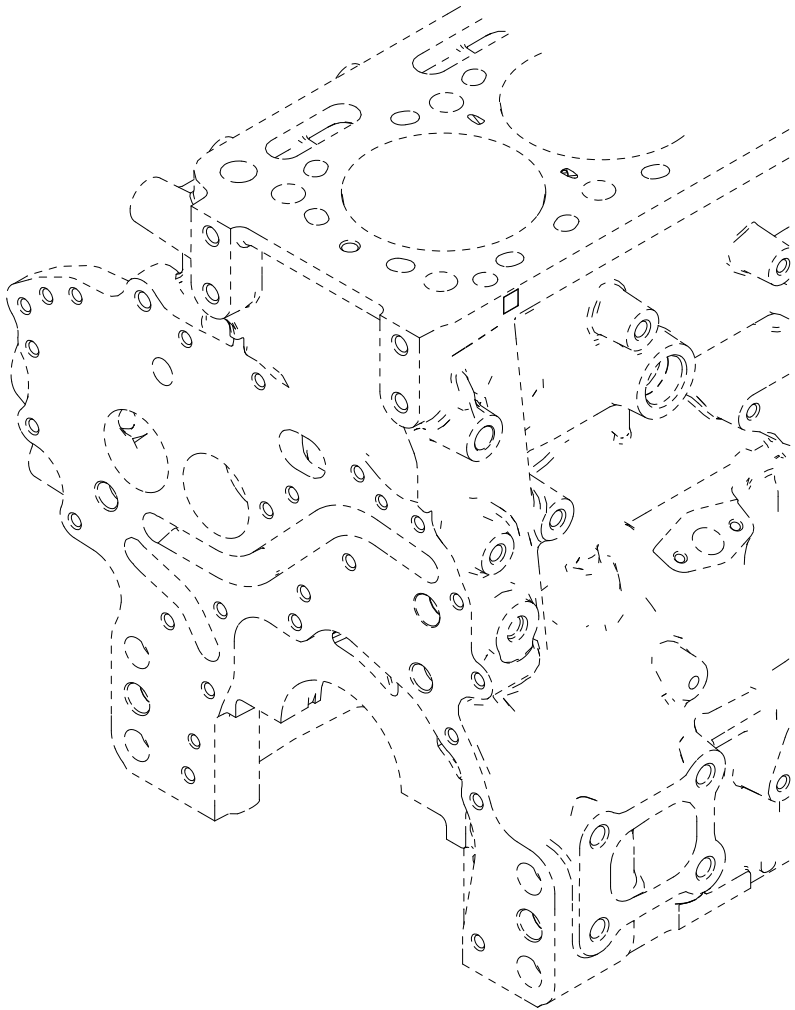
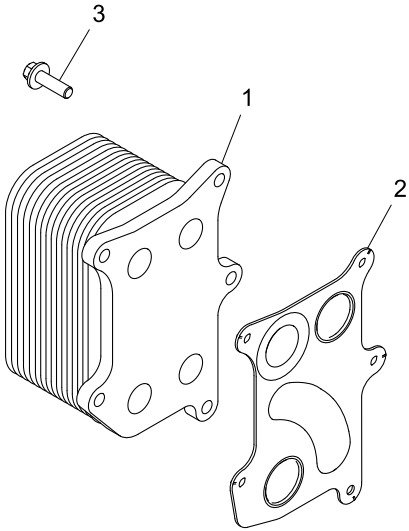
Cylinder Head Cover	Plate A
	5395502

Item	Part No.	References	Qty.	Description	Notes
1	T433428		1	CYLINDER HEAD COVER	
2		⇒ T433428	1	CYLINDER HEAD COVER	
3	T431298		1	OIL FILLER CAP	
4		⇒ T431298	1	OIL FILLER CAP	
5		⇒ T431298	1	SEAL - O RING	
6	T431289		1	SEAL - CYL HEAD COVER	
7	T431877		1	SEAL - O RING	
8	T431295		6	DUST SHIELD	
9	2314F009		13	SCREW	
10	T431305		1	HEATSHIELD	
11	2314F002		3	SCREW	



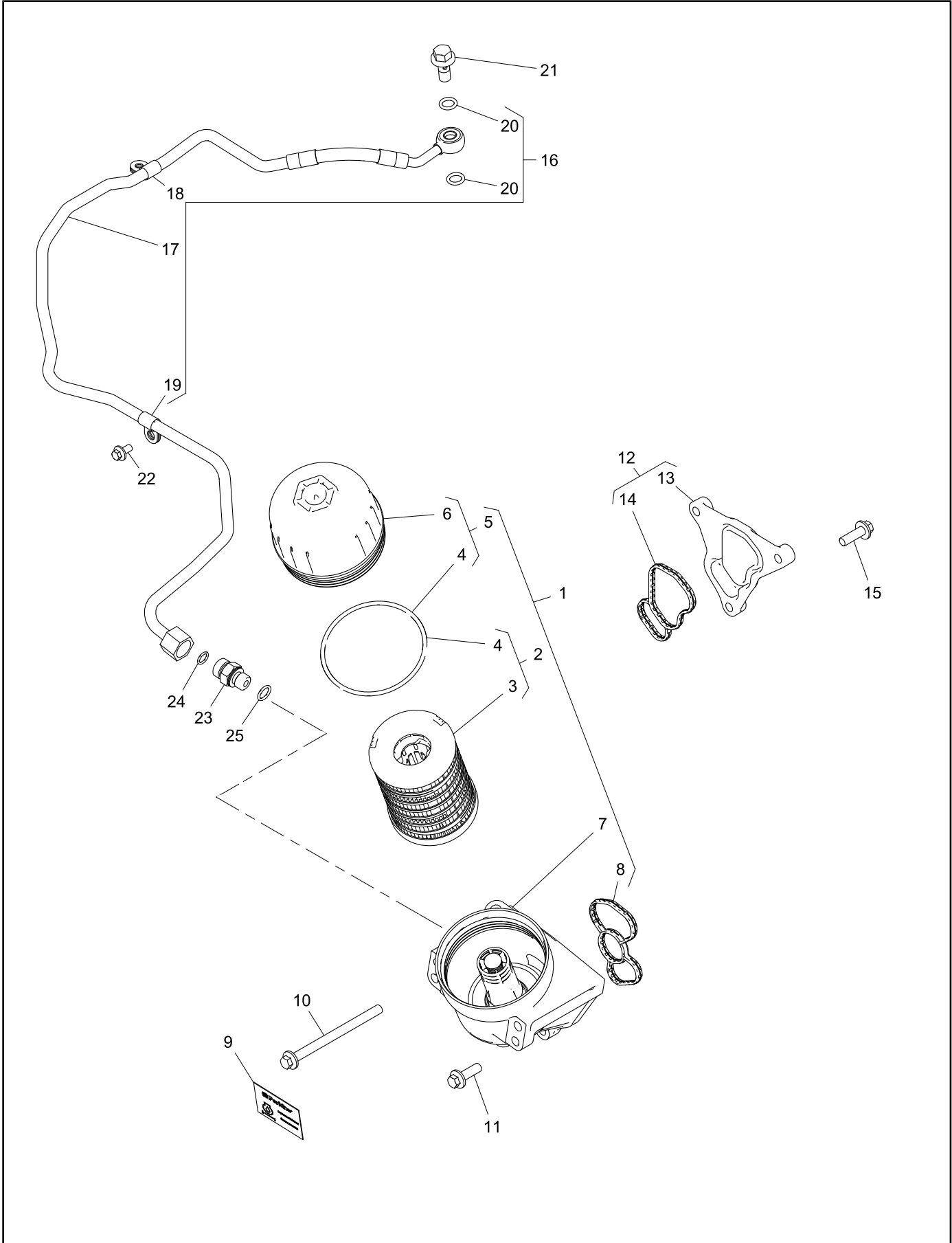
Lubricating Oil Filler	Plate A
	5126856

Item	Part No.	References	Qty.	Description	Notes
1	2485A118		2	PLUG	






Oil Cooler	Plate A
	5147381

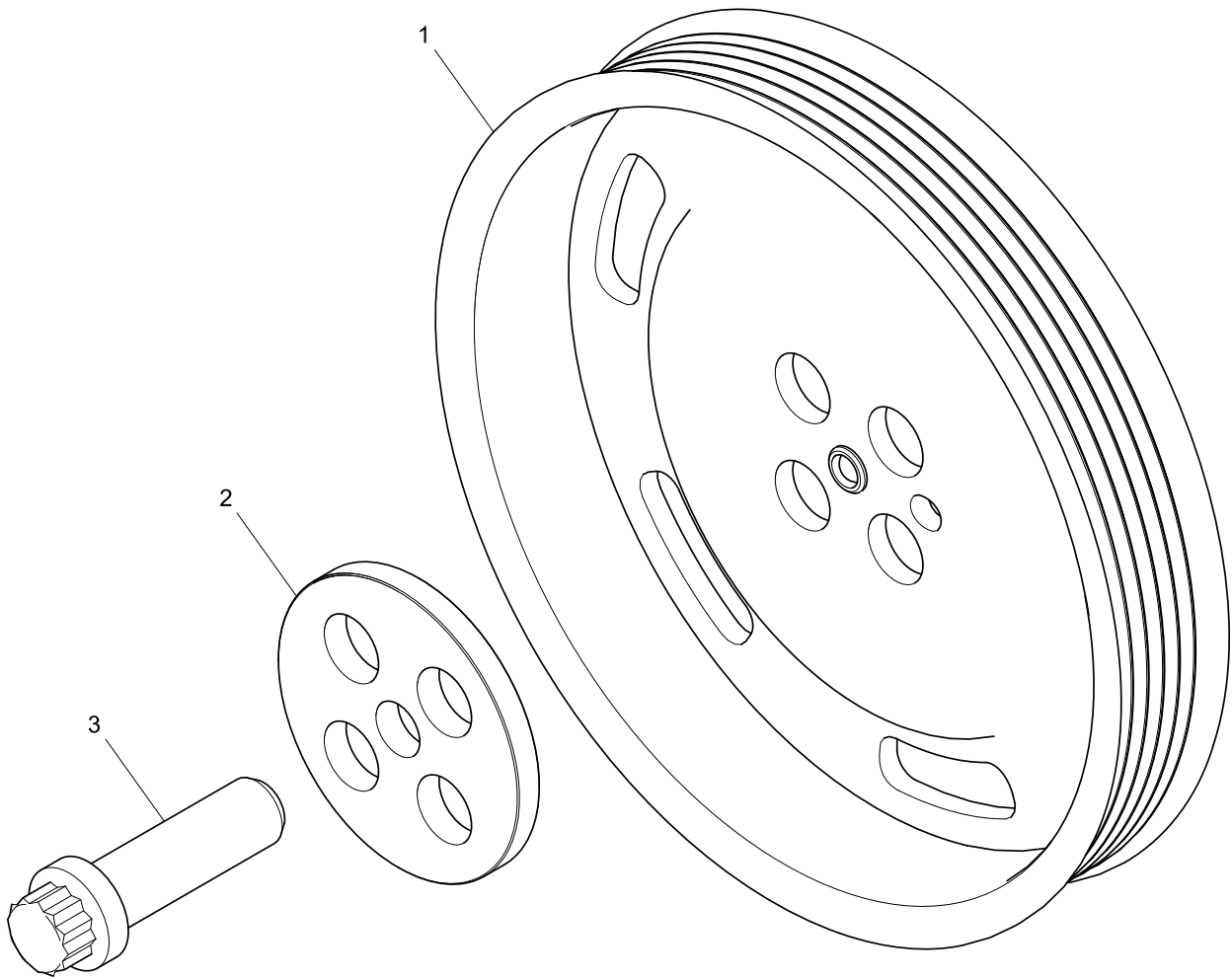
Item	Part No.	References	Qty.	Description	Notes
1	T431267		1	OIL COOLER	
2	T431261		1	GASKET - OIL COOLER	
3	2314F005		5	SCREW	



Oil Filter	Plate A
	5463085

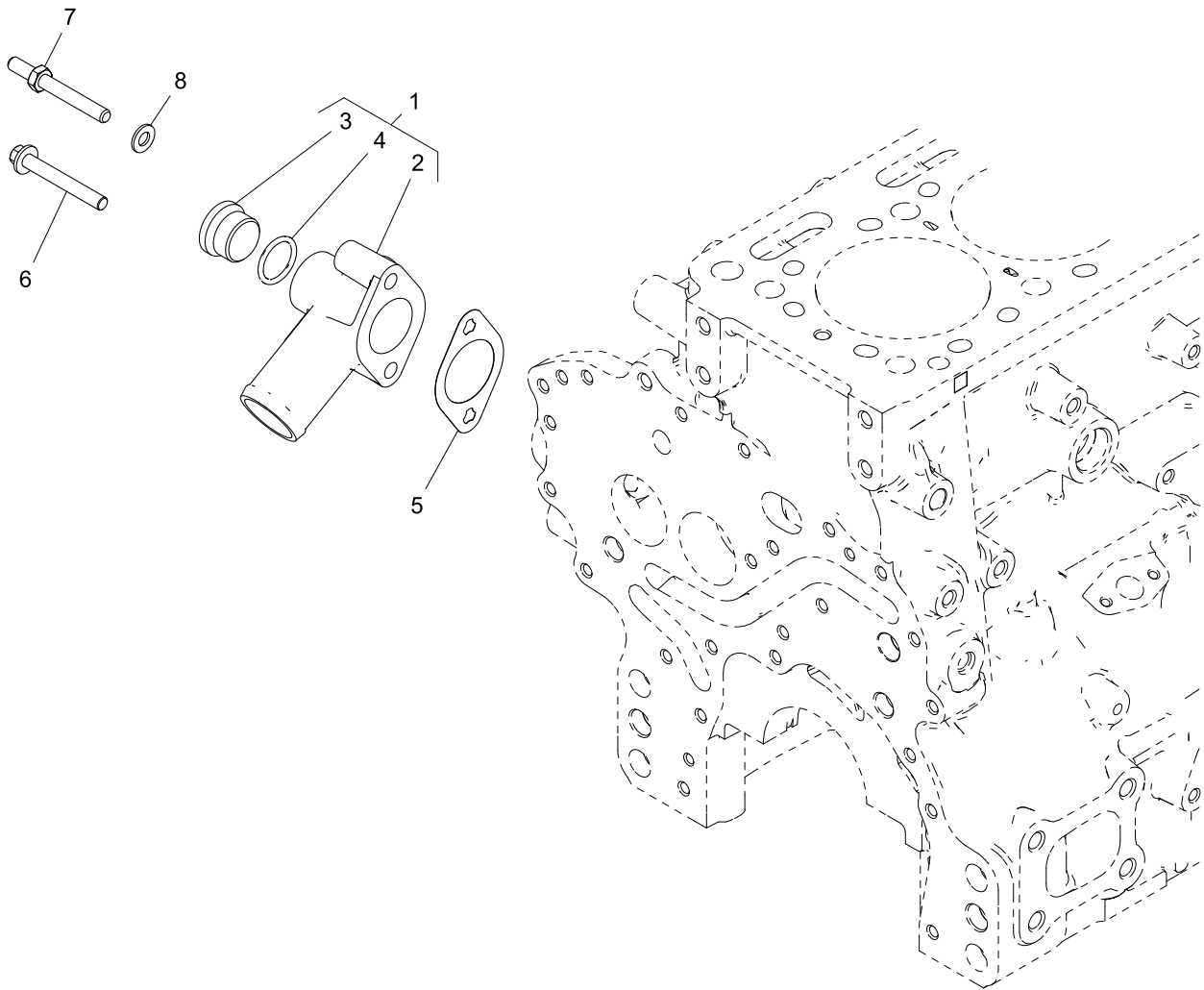
Item	Part No.	References	Qty.	Description	Notes
1	T403680		1	OIL FILTER ASSEMBLY	
2	5698037		1	OIL FILTER KIT	
3		⇒ 5698037	1	FILTER ELEMENT	
4	576/148	⇒	1	SEAL - O RING	
5	T431946		1	CAP	
6		⇒ T431946	1	CAP	
7		⇒ T403680	1	OIL FILTER HEAD	
8	T431292		1	SEAL - OIL FILTER HEAD	
9	T432068		1	LABEL	
10	2314H020		2	SCREW	
11	2314H004		1	SCREW	
12	T434043		1	PLATE	
13		 a. ⇒ T434043	1	PLATE	
14	T431293	 a.	1	SEAL	
15	2314H004	 a.	3	SCREW	
16	T431271		1	PIPE - TURBO OIL FEED	
17		⇒ T431271	1	PIPE - TURBO OIL FEED	
18	0180170		1	CLIP	
19	36565517		1	CLIP	
20	CH10229		2	SEAL - O RING	
21	T423366		1	BANJO BOLT	
22	2314F002		1	SCREW	
23	T422775		1	ADAPTOR	
24	T408416		1	SEAL - O RING	
25	T409213		1	SEAL - O RING	

History					
a.					
13	T431928		1	PLATE	
15	2314H003		3	SCREW	
14	T431293		1	SEAL	



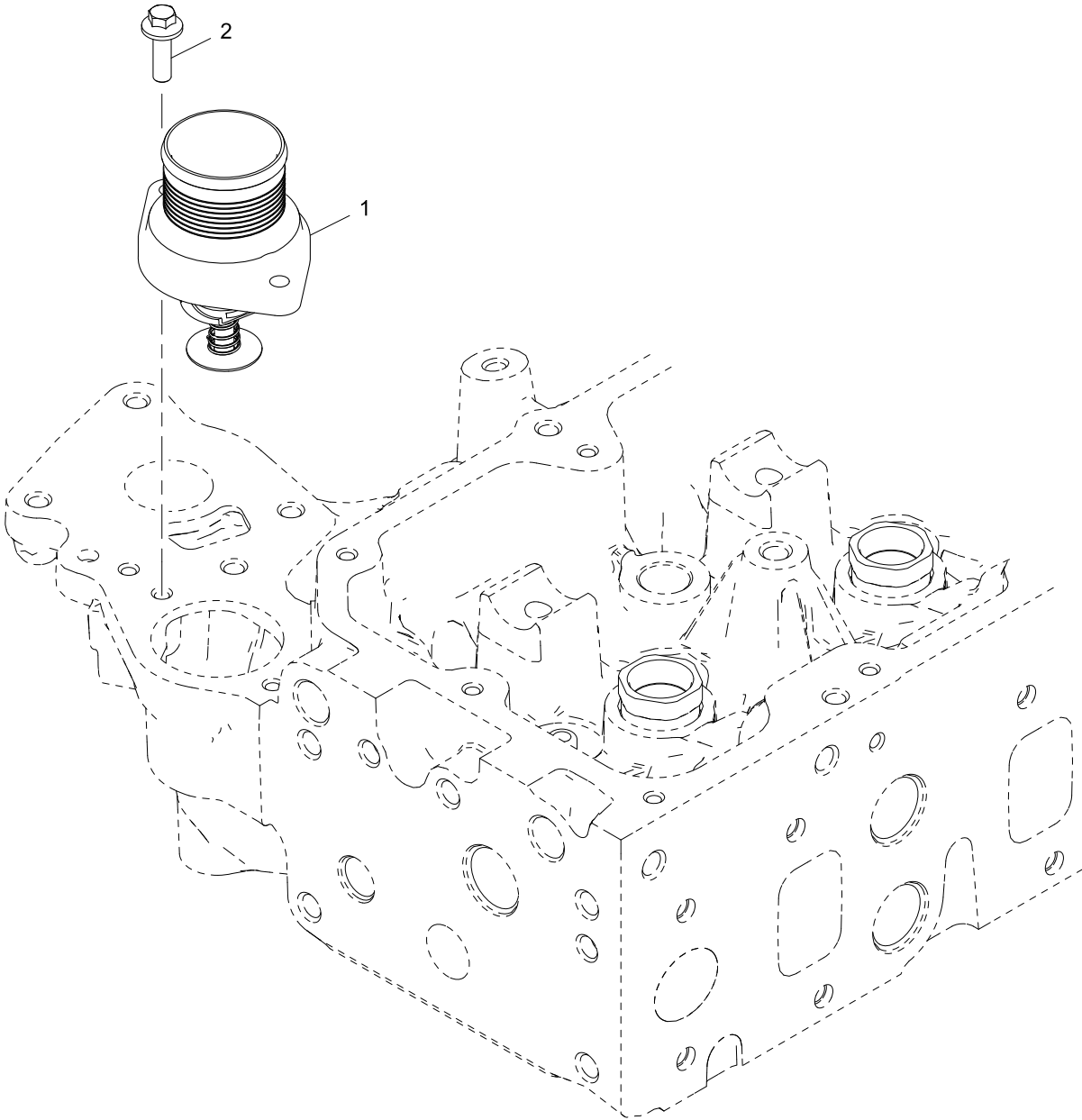
Crankshaft Pulley	Plate A
	5065468

Item	Part No.	References	Qty.	Description	Notes
1	T431173		1	CRANKSHAFT PULLEY	
2	T431172		1	PLATE	
3	T431797		4	CRANKSHAFT BOLT	



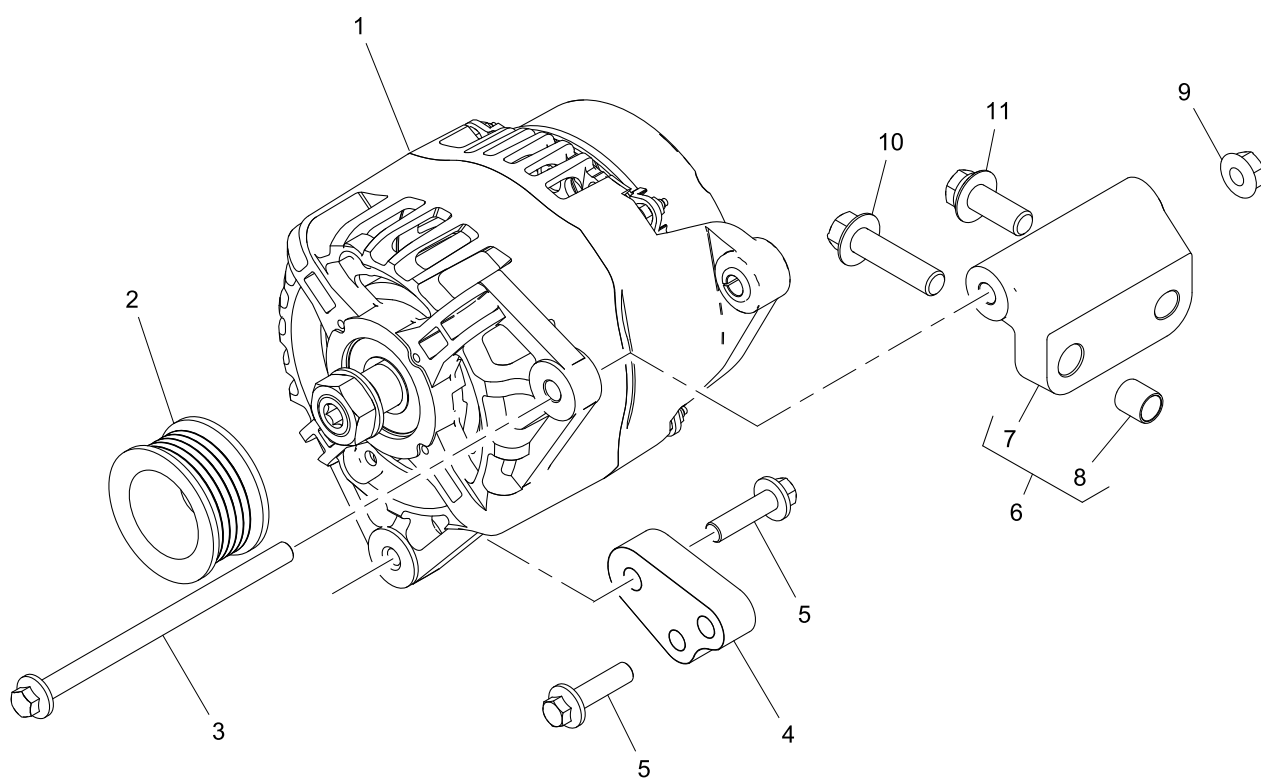
Water Inlet Housing	Plate A
	5501384

Item	Part No.	References	Qty.	Description	Notes
1	T431303		1	WATER INLET CONNECTION	
2		⇒ T431303	1	CONNECTION	
3	CH12474		1	PLUG	
4	T405628		1	SEAL - O RING	
5	T431259		1	GASKET - WATER INTAKE	
6	2314K161		1	SCREW	
7	T400588		1	BOLT	
8	2131A008		1	WASHER	






Water Outlet Housing	Plate A
	4874342

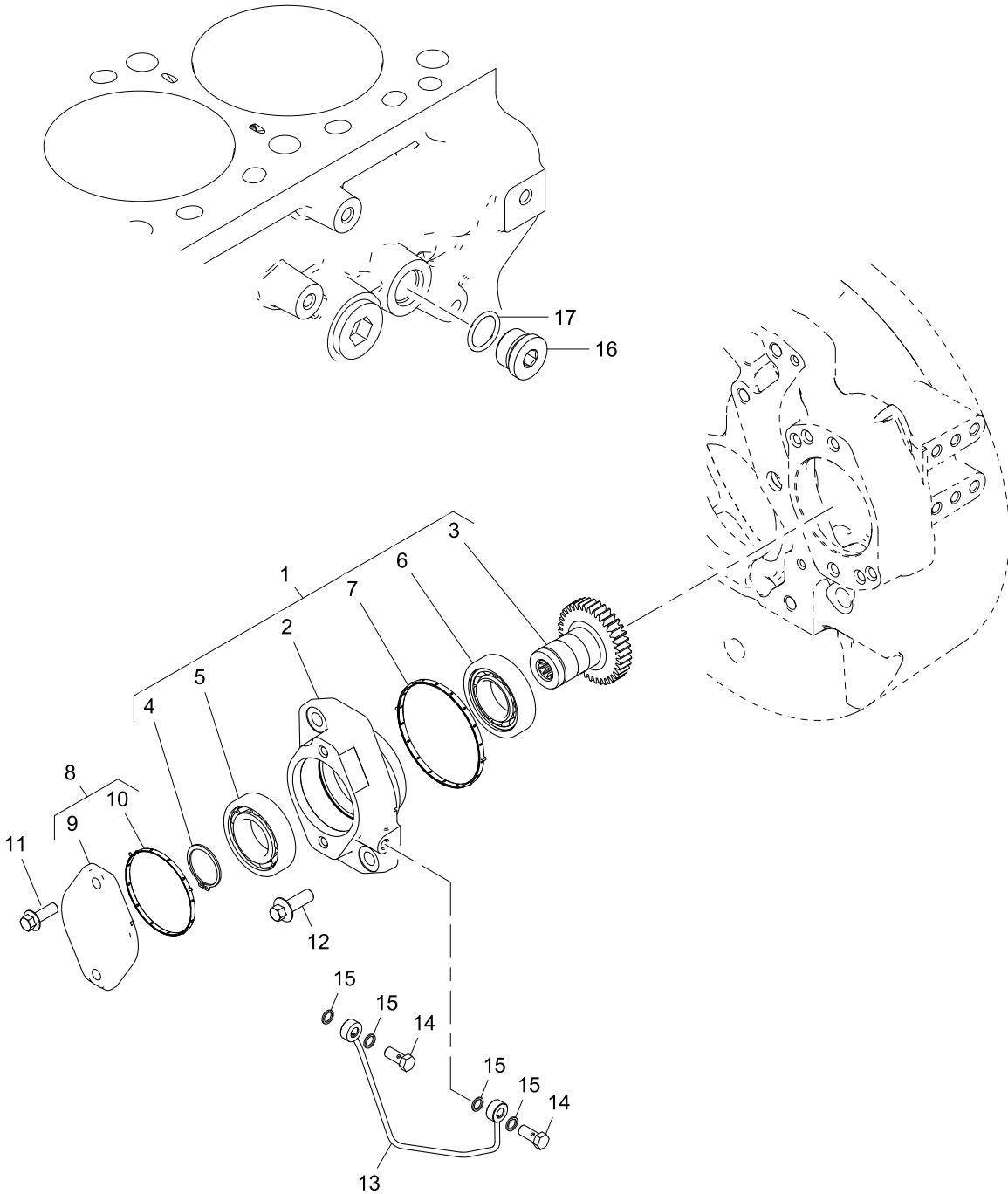
Item	Part No.	References	Qty.	Description	Notes
1	T434351		1	THERMOSTAT ASSEMBLY	
2	2314F005		2	SCREW	



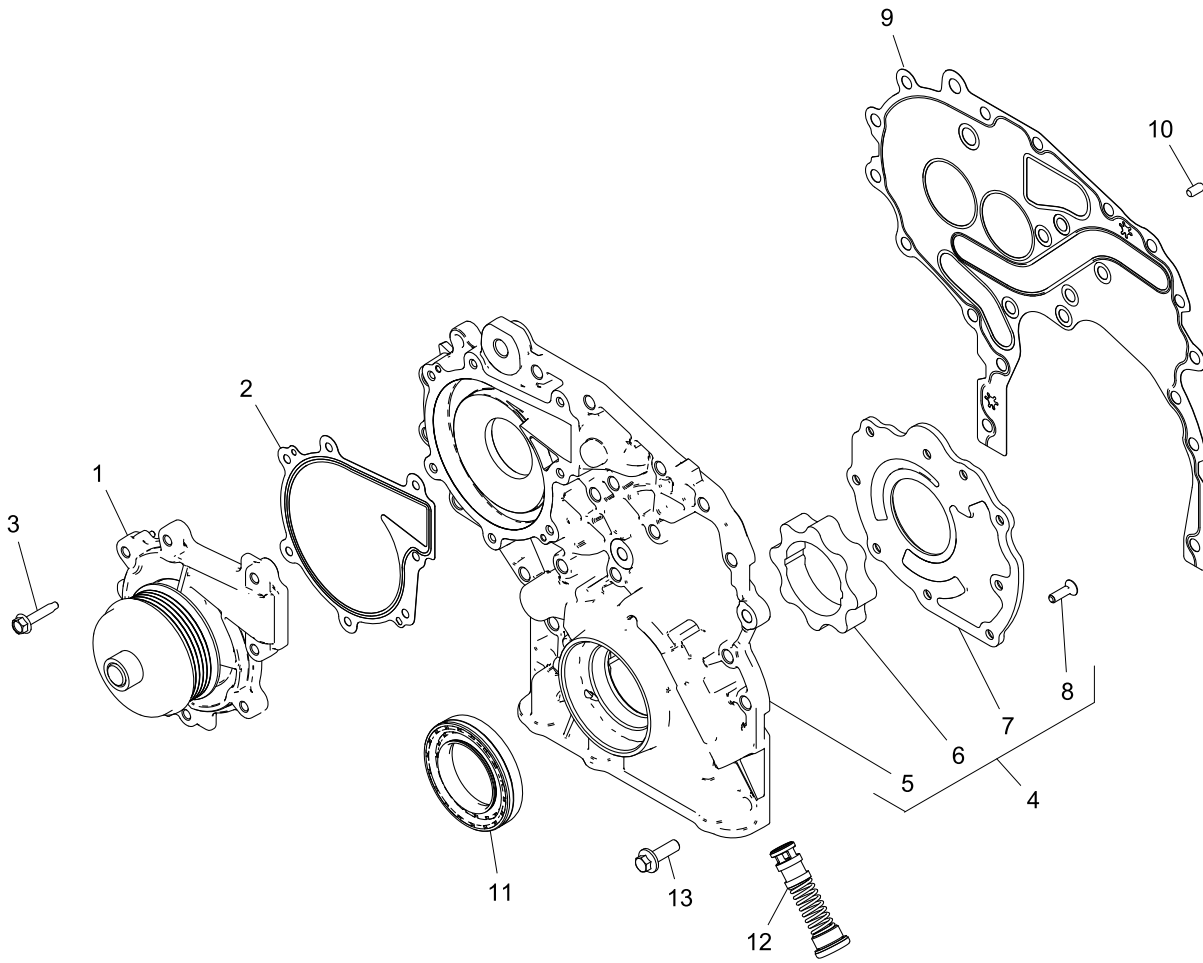
Alternator	Plate A
	5103717

Item	Part No.	References	Qty.	Description	Notes
1	T412400		1	ALTERNATOR	
2	T432243		1	ALTERNATOR PULLEY	
3	2314H022		1	SCREW	
4	T431351		1	ALTERNATOR BRACKET	
5	2314H005		3	SCREW	
6	T434569	 a.	1	ALTERNATOR BRACKET	
7		 T434569	1	BRACKET	
8		 T434569	1	DOWEL	
9	2318A603		1	NUT	
10	2314J006		1	SCREW	
11	2314J003		1	SCREW	

History					
a.					
6	T431322		1	BRACKET ASSEMBLY	



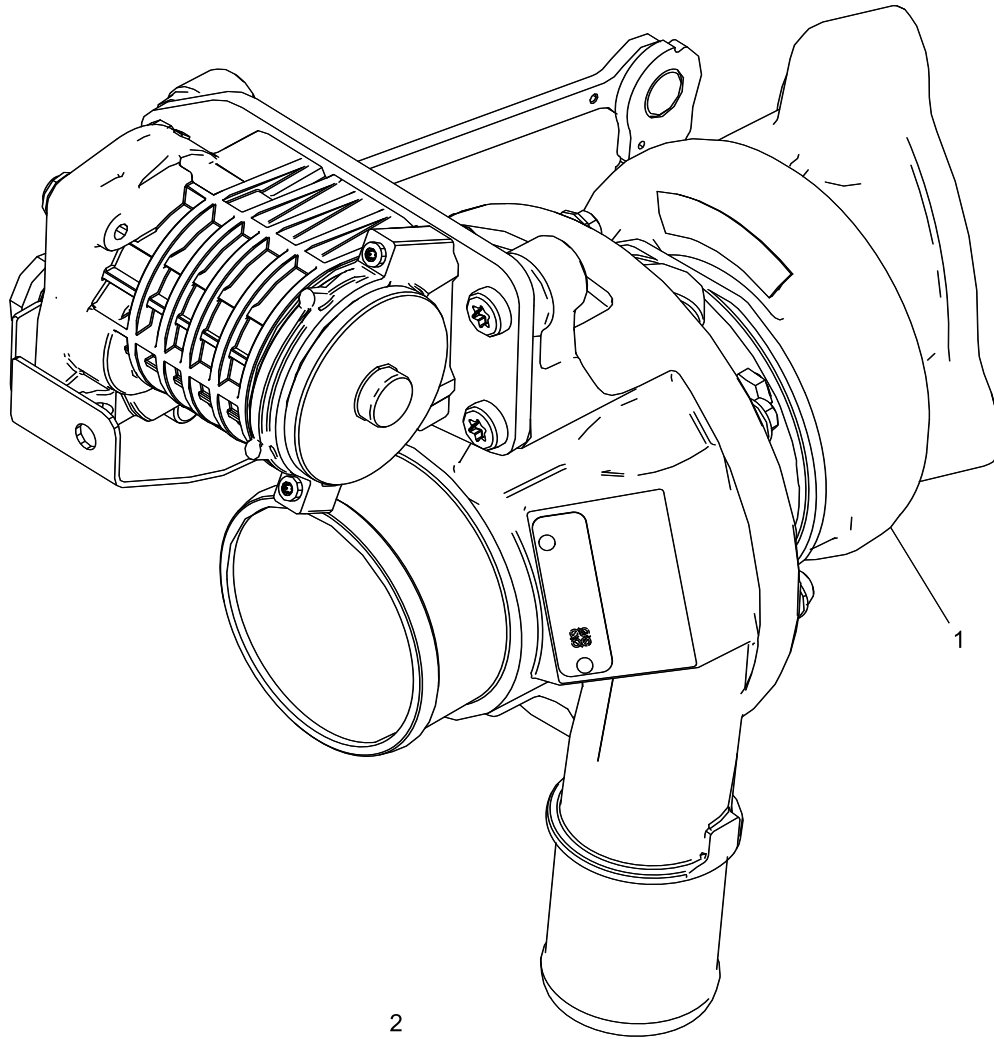
Item	Part No.	References	Qty.	Description	Notes
1	T431584		1	POWER TAKE OFF	
2		⇒ T431584	1	HOUSING	
3	T431262		1	GEAR	
4	T431800		1	CIRCLIP	
5	T432944		1	BEARING HOLDER ASSEMBLY	
6	T431767		1	BEARING HOLDER ASSEMBLY	
7	T410133		1	SEALING RING	
8	T409969		1	COVER	
9		⇒ T409969	1	PLATE	
10	T410131		1	SEAL	
11	2314J004		2	SCREW	
12	2314J604		2	SCREW	
13	T431263		1	PIPE - OIL	
14	3218R036		2	BANJO BOLT	
15	2411D010		4	WASHER	
16	CH10287		1	PLUG	
17	CH10146		1	SEAL - O RING	



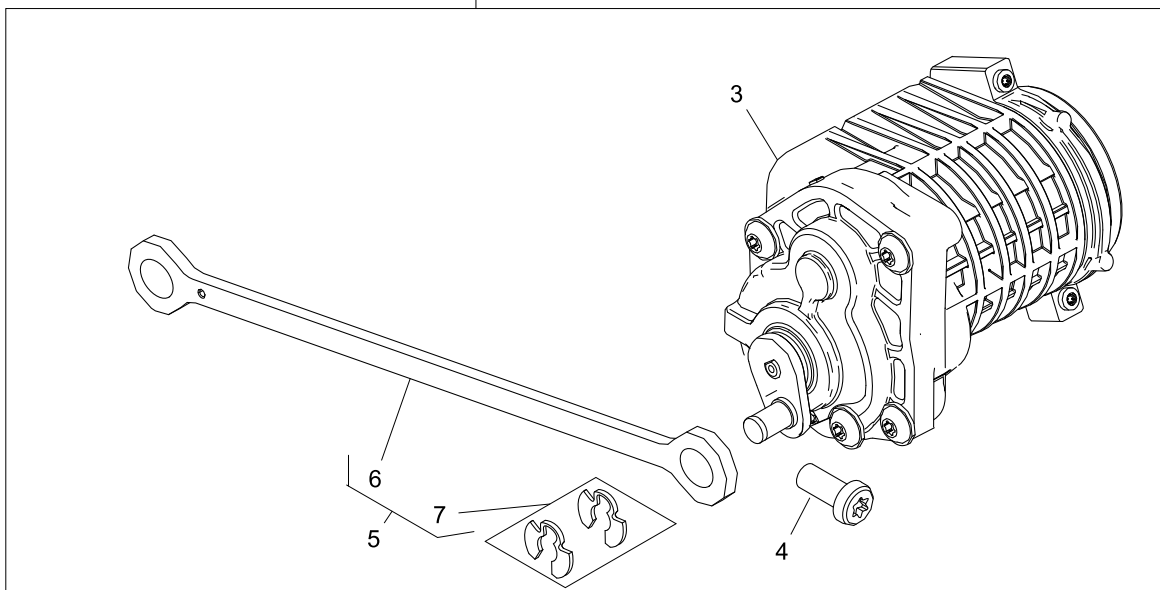
Oil Pump	Plate A
	5075225

Item	Part No.	References	Qty.	Description	Notes
1	T431750		1	WATER PUMP	
2	T431752		1	GASKET - WATER PUMP	
3	T431763		7	SCREW	
4	T431751		1	OIL PUMP	
5		⇒ T431751	1	OIL PUMP HOUSING	(1)
6		⇒ T431751	1	ROTOR	(1)
7		⇒ T431751	1	COVER	(1)
8		⇒ T431751	12	SCREW	(1)
9	T431764		1	GASKET	
10	3313A036		2	DOWEL	
11	T433609		1	SEAL - FRONT END OIL	
12	T431749		1	PRESSURE VALVE	
13	2314H004		20	SCREW	

Footnotes	
(1)	SERVICED AS A COMPLETE UNIT.

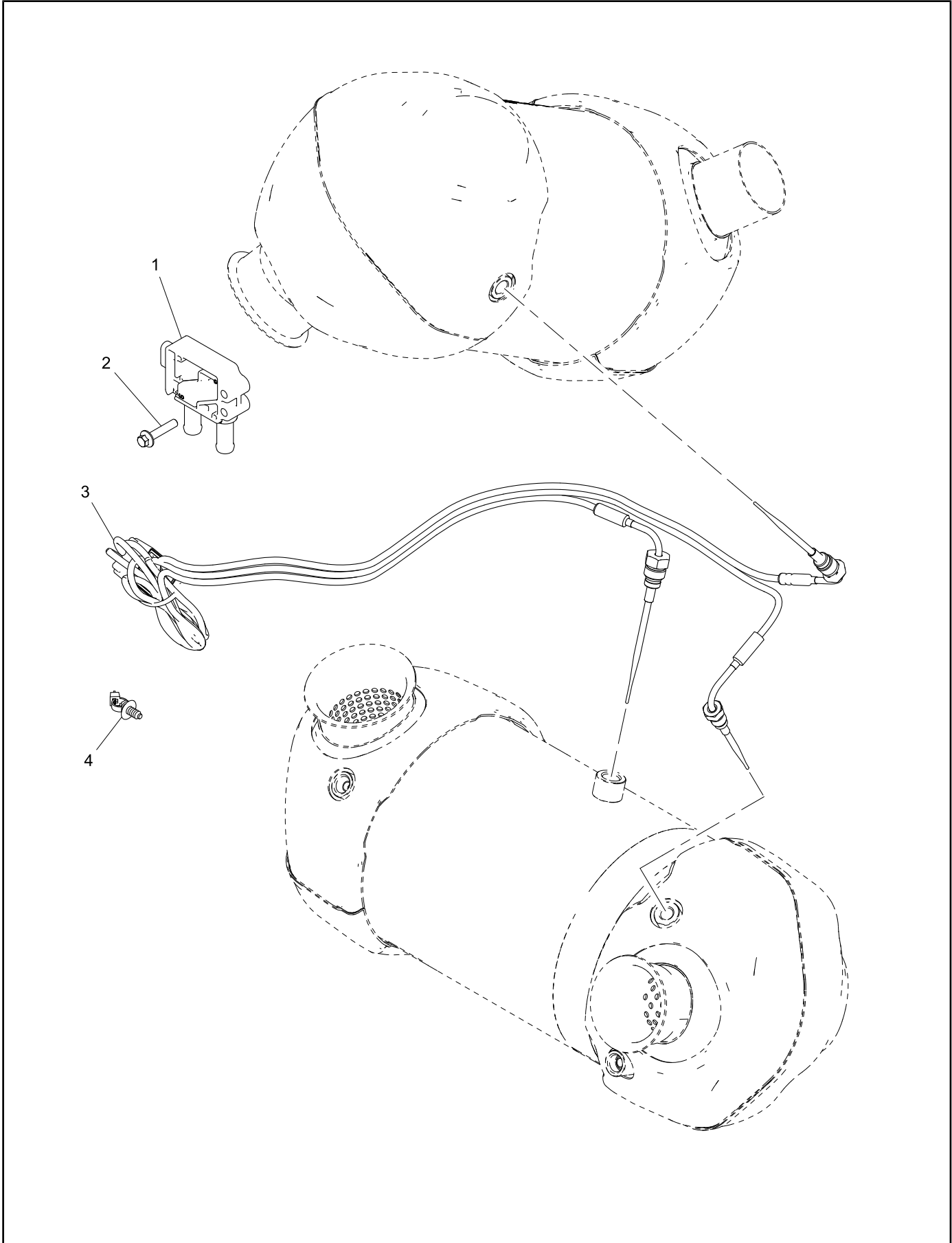


2



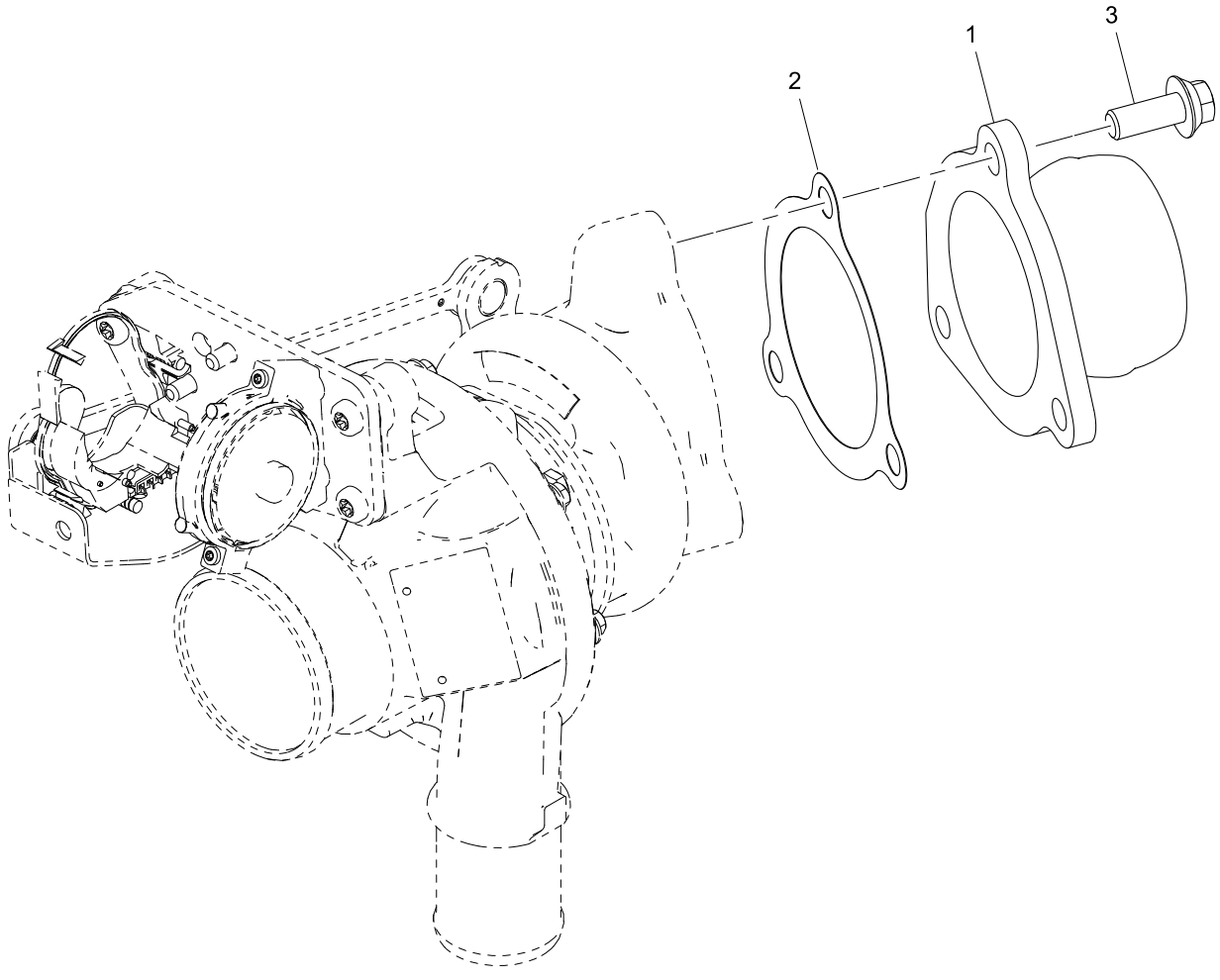
Turbocharger	Plate A
	5147399

Item	Part No.	References	Qty.	Description	Notes
1	5698449		1	TURBOCHARGER	
2	T431948		1	ACTUATOR KIT	
3		⇒ T431948	1	ACTUATOR	
4		⇒ T431948	9	SCREW	
5	T431949		1	ROD	
6		⇒ T431948	1	ROD	
7	T431950		1	CIRCLIP	



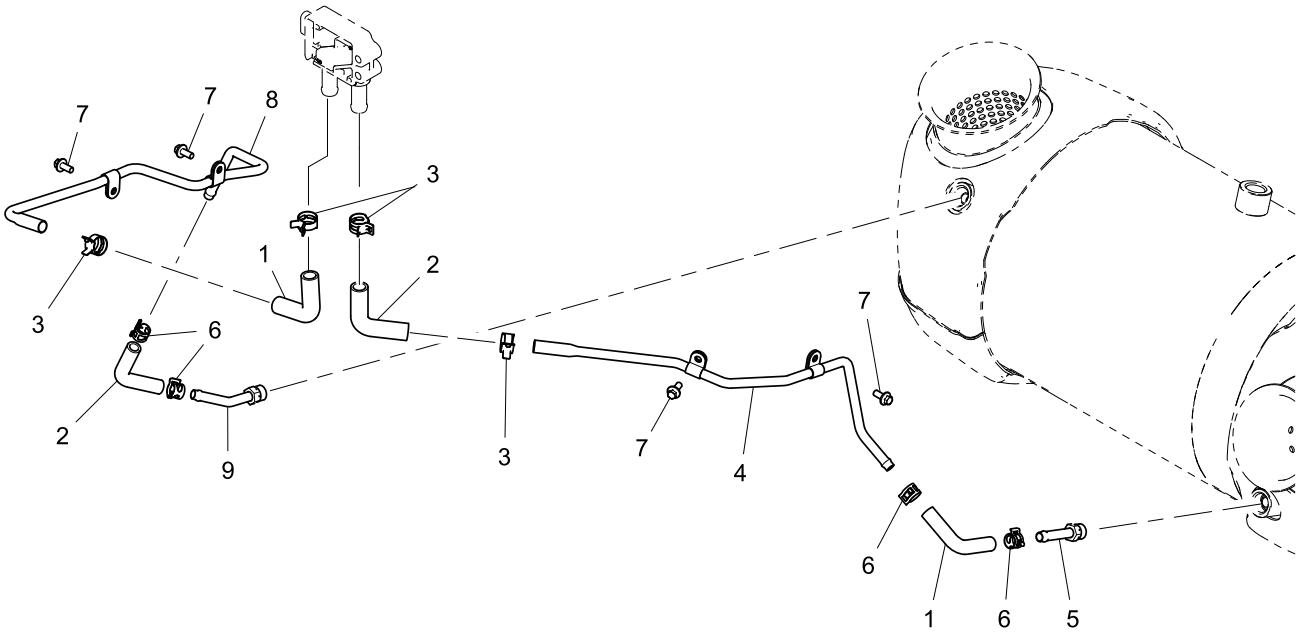
Soot Monitor	Plate A
	5602127

Item	Part No.	References	Qty.	Description	Notes
1	T430823		1	SENSOR	
2	2314F007		2	SCREW	
3	T431202		1	SENSOR	
4	T431681		6	CLIP	

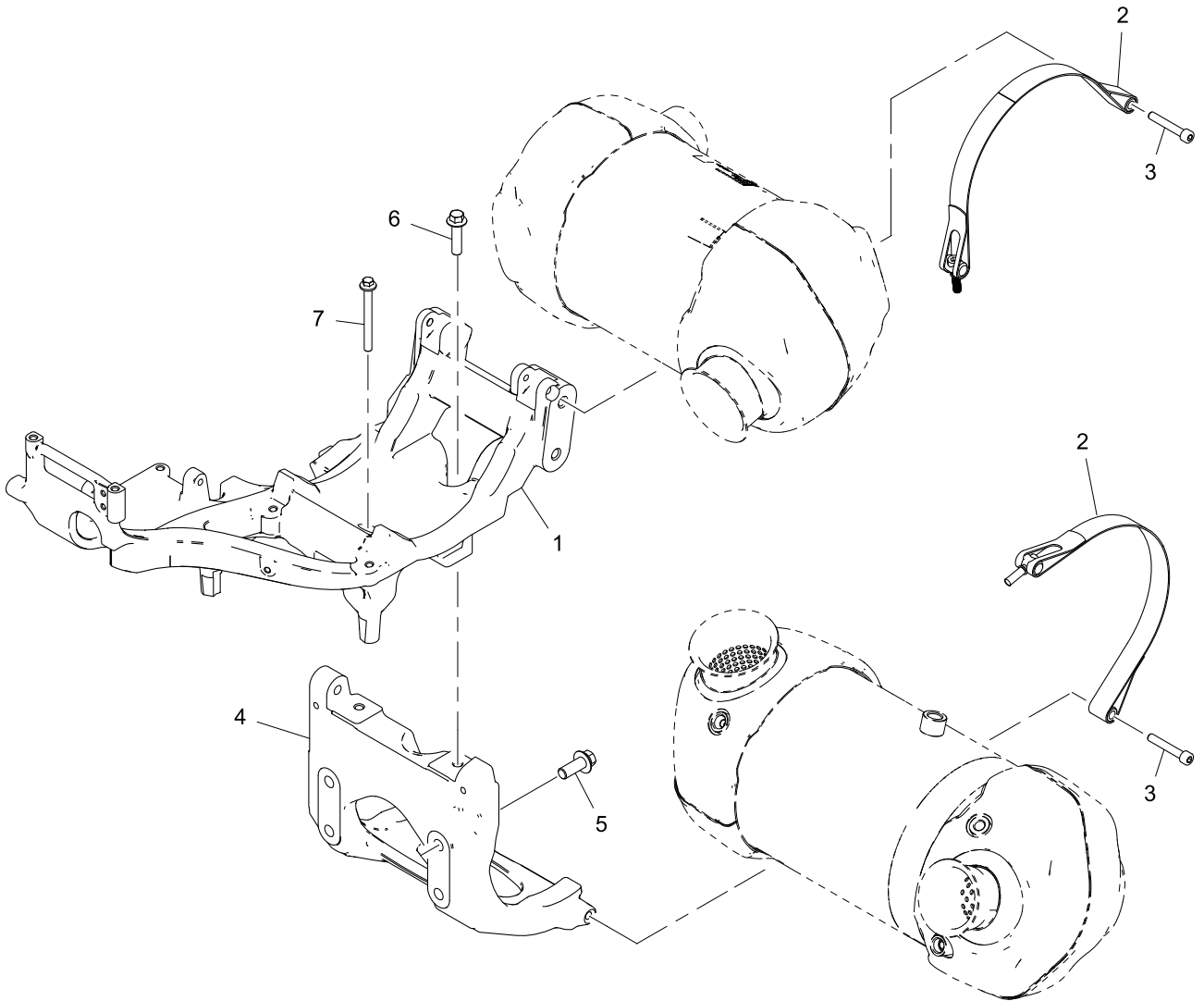


Exhaust Outlet	Plate A
	5449965

Item	Part No.	References	Qty.	Description	Notes
1	T431856		1	ADAPTOR	
2	T407256		1	GASKET	
3	2314J003		3	SCREW	

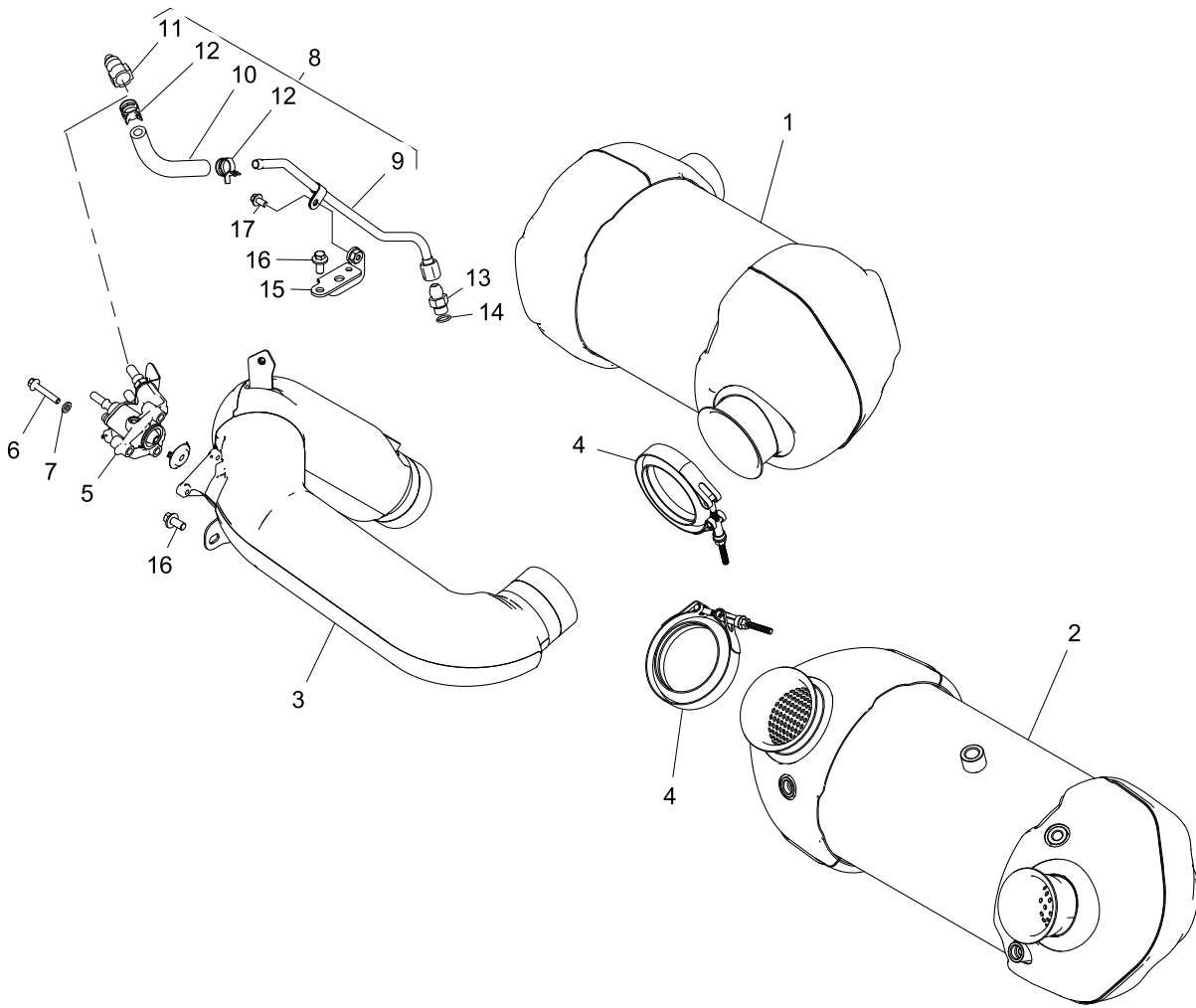










Item	Part No.	References	Qty.	Description	Notes
1	T431304		2	HOSE	
2	T431299		2	HOSE	
3	2481B018		4	HOSE CLIP	
4	T433641		1	PIPE	
5	T431274		1	PIPE	
6	T401324		4	CLAMP	
7	2314F003		4	SCREW	
8	T433640		1	PIPE	
9	T433635		1	PIPE	



Clean Emissions Module Mounting Bracket	Plate A
	5273167

Item	Part No.	References	Qty.	Description	Notes
1	T433618		1	BRACKET	
2	T431012		4	CLAMP	
3	T431690		4	SCREW	
4	T431588		1	BRACKET	
5	2314J603		4	SCREW	
6	2314J006		2	SCREW	
7	2314H015		2	SCREW	

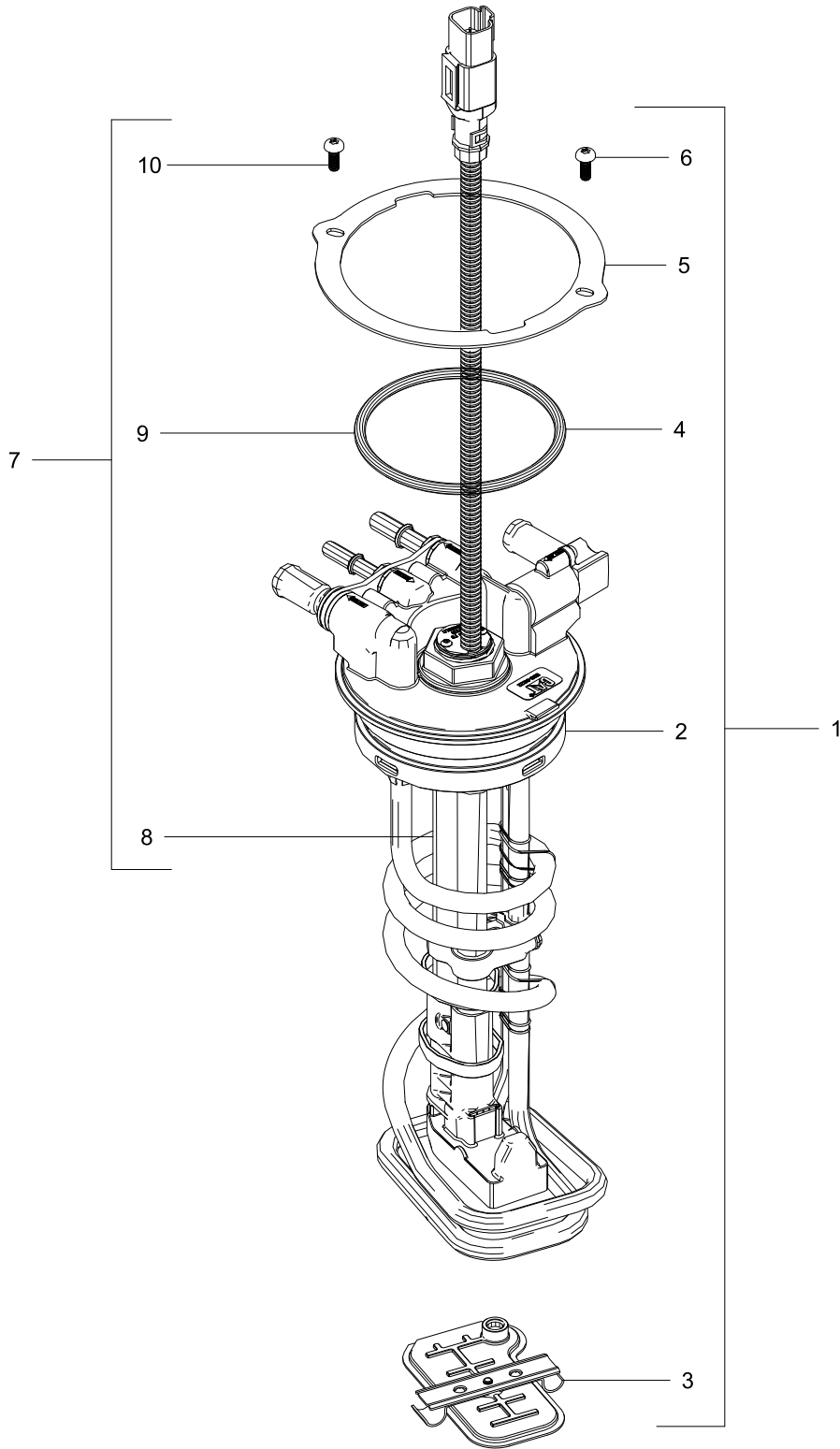


Item	Part No.	References	Qty.	Description	Notes
1	T431016		1	CLEAN EMISSIONS MODULE	
2	T433389		1	DIESEL PARTICULATE FILTER	
3	T433622		1	TUBE ASSEMBLY	
4	T431002		2	CLAMP	
5	T431204		1	INJECTOR	
6	T400364		3	SCREW	
7	T409236		3	WASHER	
8	T434047	 a.	1	PIPE - COOLANT	
9		 a.  T434047	1	PIPE	
10		 a.  T434047	1	HOSE	
11	T400385		1	CONNECTION	
12	2481B018		2	HOSE CLIP	
13	T430176		1	ADAPTOR	
14	CH11880		1	SEAL - O RING	
15	T431014		1	BRACKET	
16	2314H002		4	SCREW	
17	2314F002		1	SCREW	
Service Options					
2	T433389P		1	DIESEL PARTICULATE FILTER	(1)

History

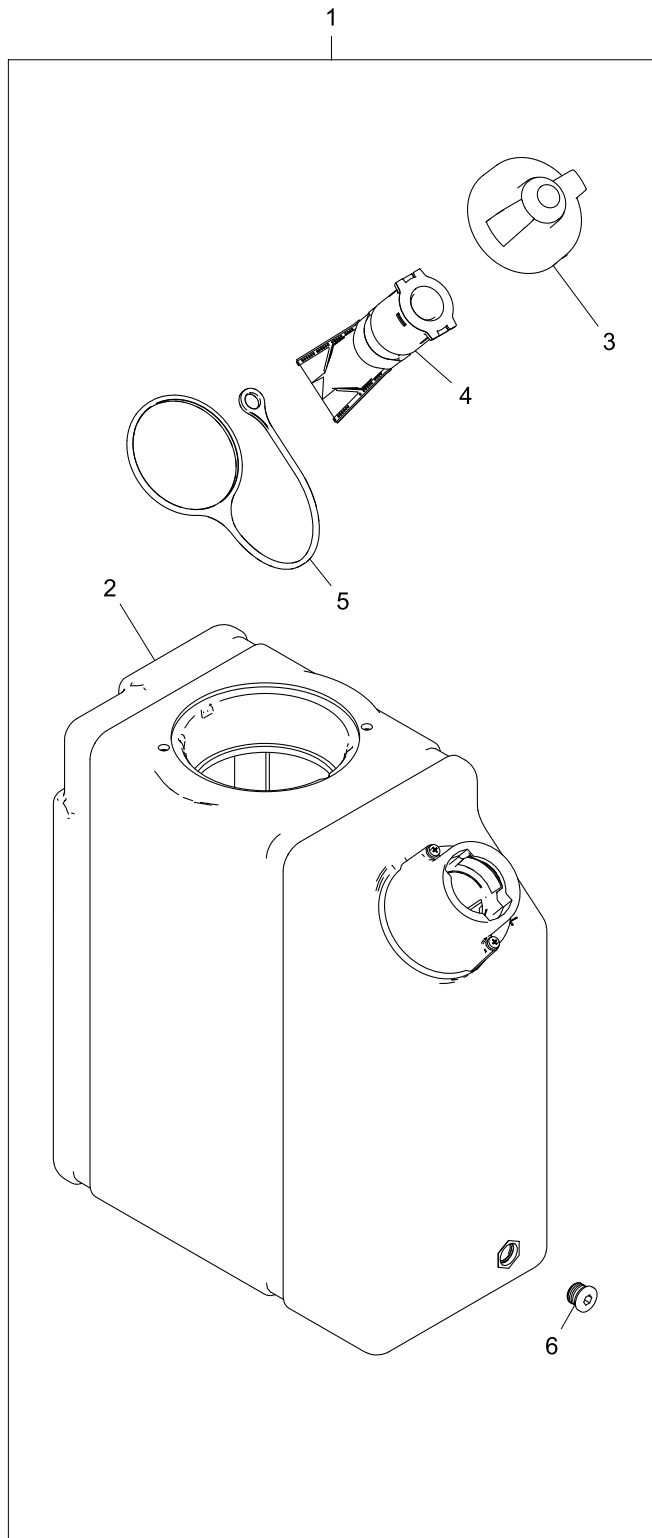
a.

8	T433739		1	PIPE	
9	T433306		1	PIPE - COOLANT	
10			1	HOSE	



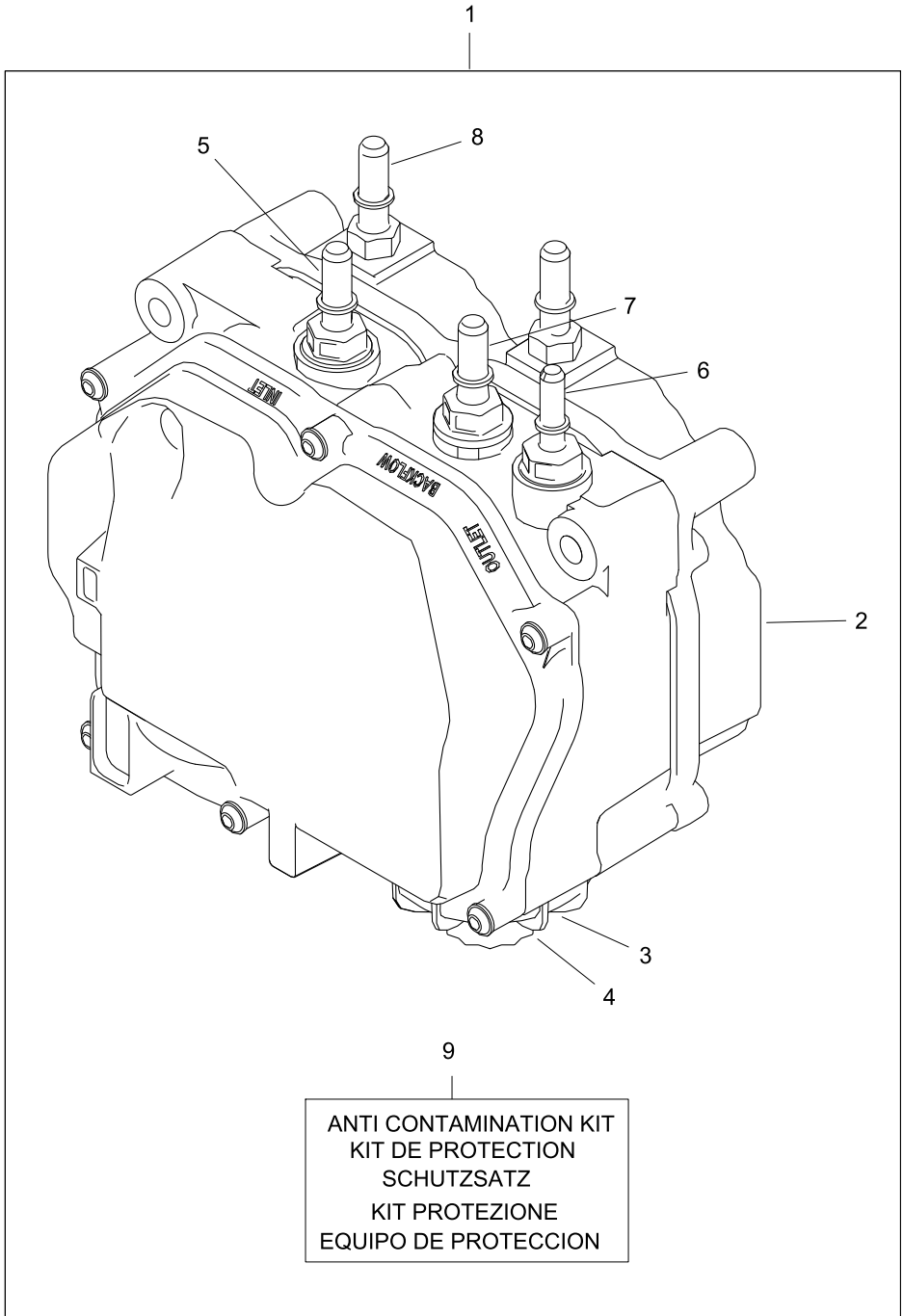
DEF System	Plate A
	5242322

Item	Part No.	References	Qty.	Description	Notes
1	T434680		1	DEF MANIFOLD	
2		⇒ T434680	1	DEF MANIFOLD	
3	T431008		1	FILTER	
4	T420264		1	SEAL - O RING	
5	T420227		1	CLAMP	
6	T420222		2	SCREW	
7	T434846		1	SENSOR	
8	T434977		1	DEF SENSOR KIT	
9	T420264		1	SEAL - O RING	
10	T420222		2	SCREW	




DEF Tank	Plate A
	5242322

Item	Part No.	References	Qty.	Description	Notes
1	T431933		1	DEF TANK	
2		⇒ T431933	1	TANK	
3	T414486		1	CAP	
4	T400424		1	SCREEN	
5	T414313		1	STRAP	
6	T420221		1	DRAIN PLUG	

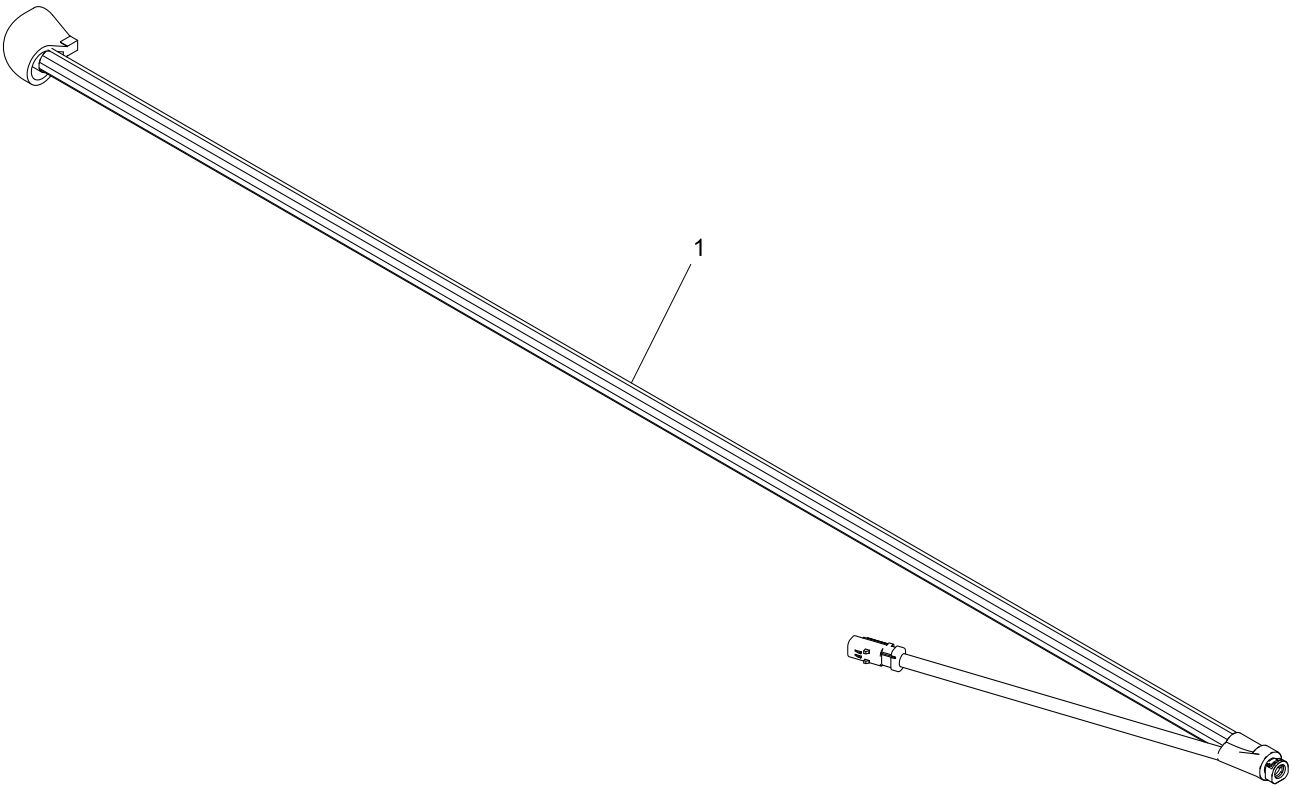


DEF Pump	Plate A
	5242322

Item	Part No.	References	Qty.	Description	Notes
1	T435130		1	DEF PUMP	
2		⇒ T435130	1	PRESSURE PUMP	
3	T435902	 a.	1	FILTER	
4	T400378		1	CAP	
5	T400379		1	CONNECTION	
6	T400380		1	CONNECTION	
7	T431079		1	CONNECTOR	
8	T400382		2	CONNECTION	
9	T400383		1	ANTI CONTAMINATION KIT	

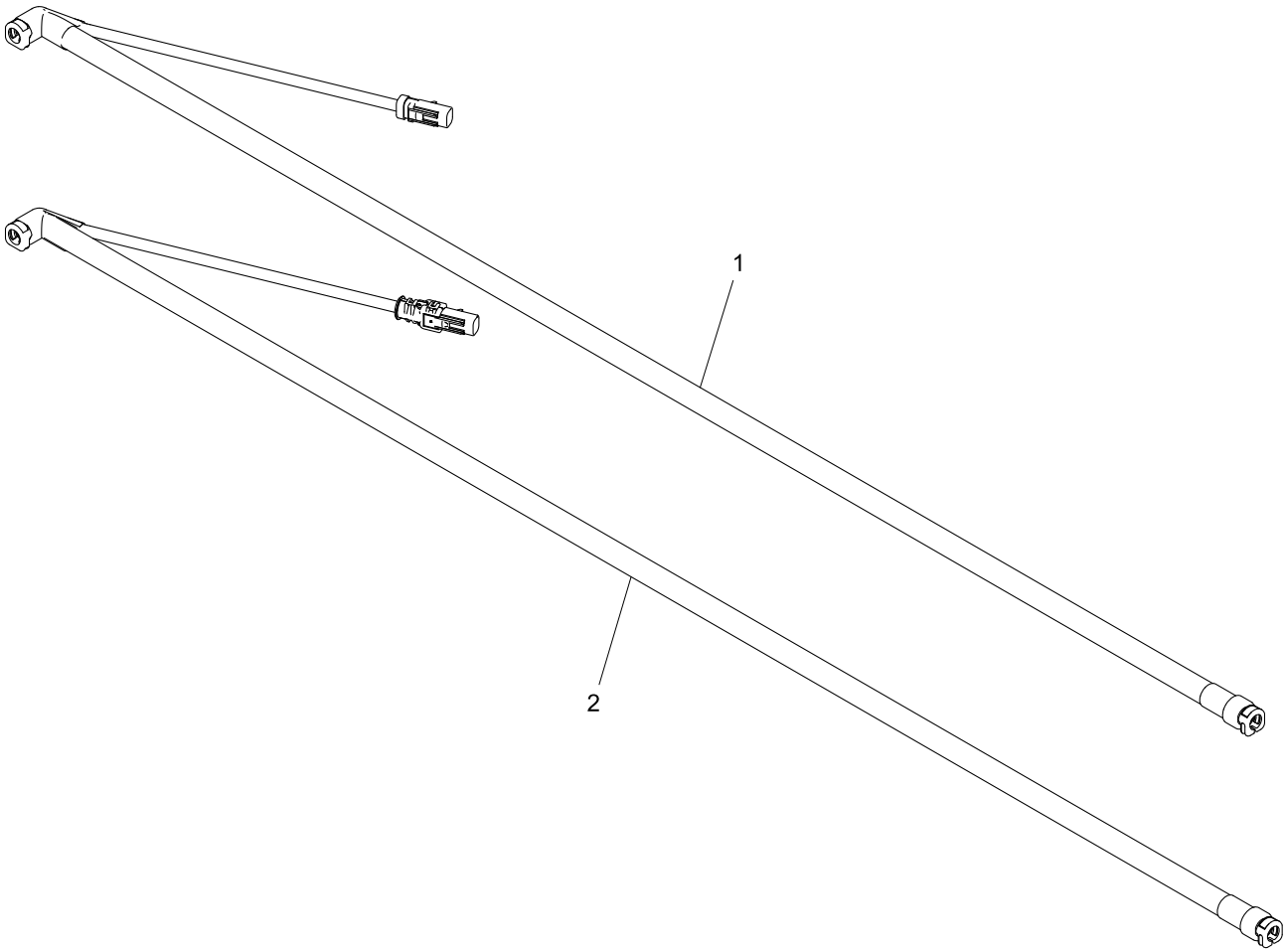
History					
a.					
3	T400377		1	FILTER ELEMENT	(1)

Footnotes	
(1)	Filter, rubber insert, removal tool.



DEF Lines	Plate A
	3889152

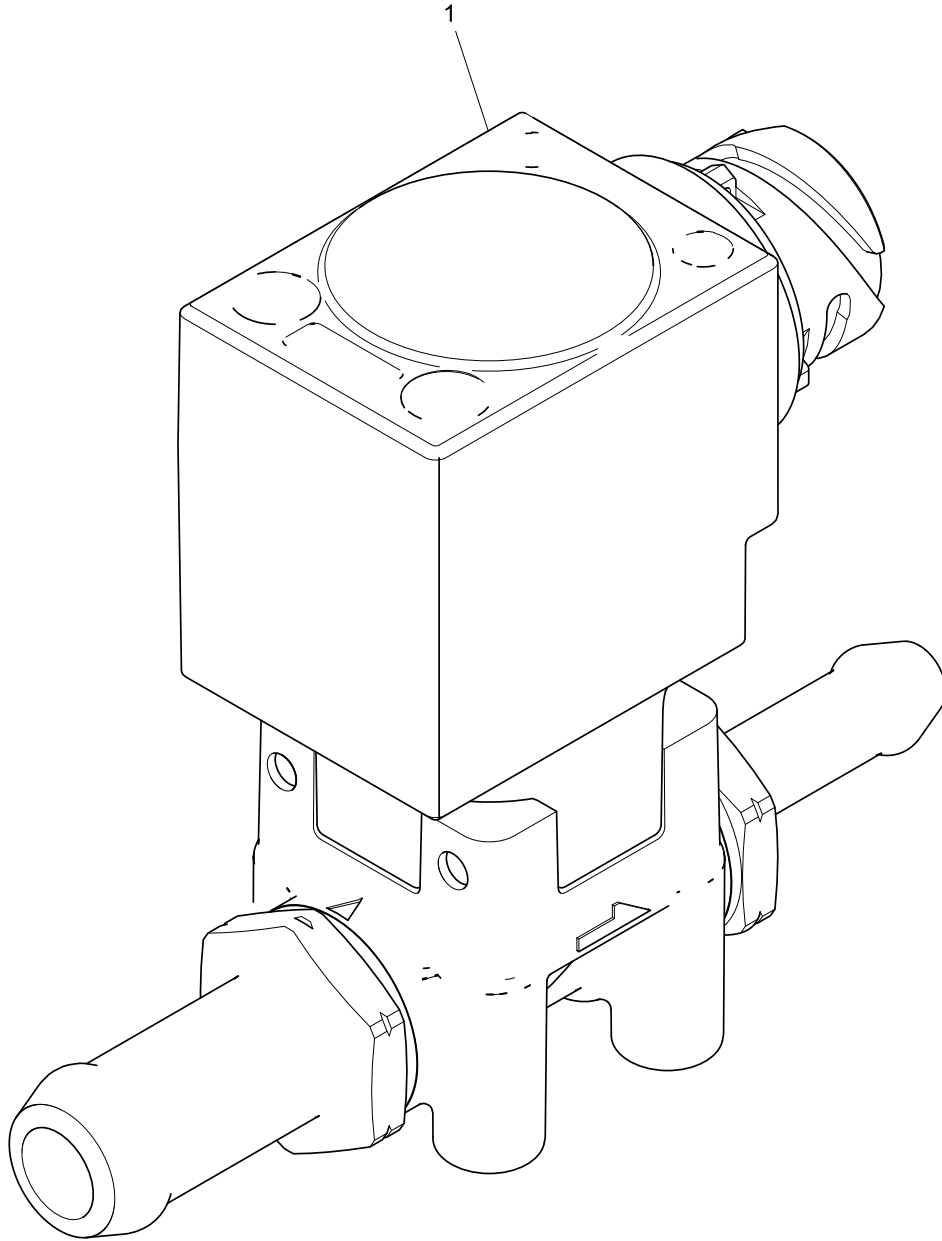
Item	Part No.	References	Qty.	Description	Notes
1	T416245		1	DEF HOSE	



DEF Lines	Plate A
	5432860

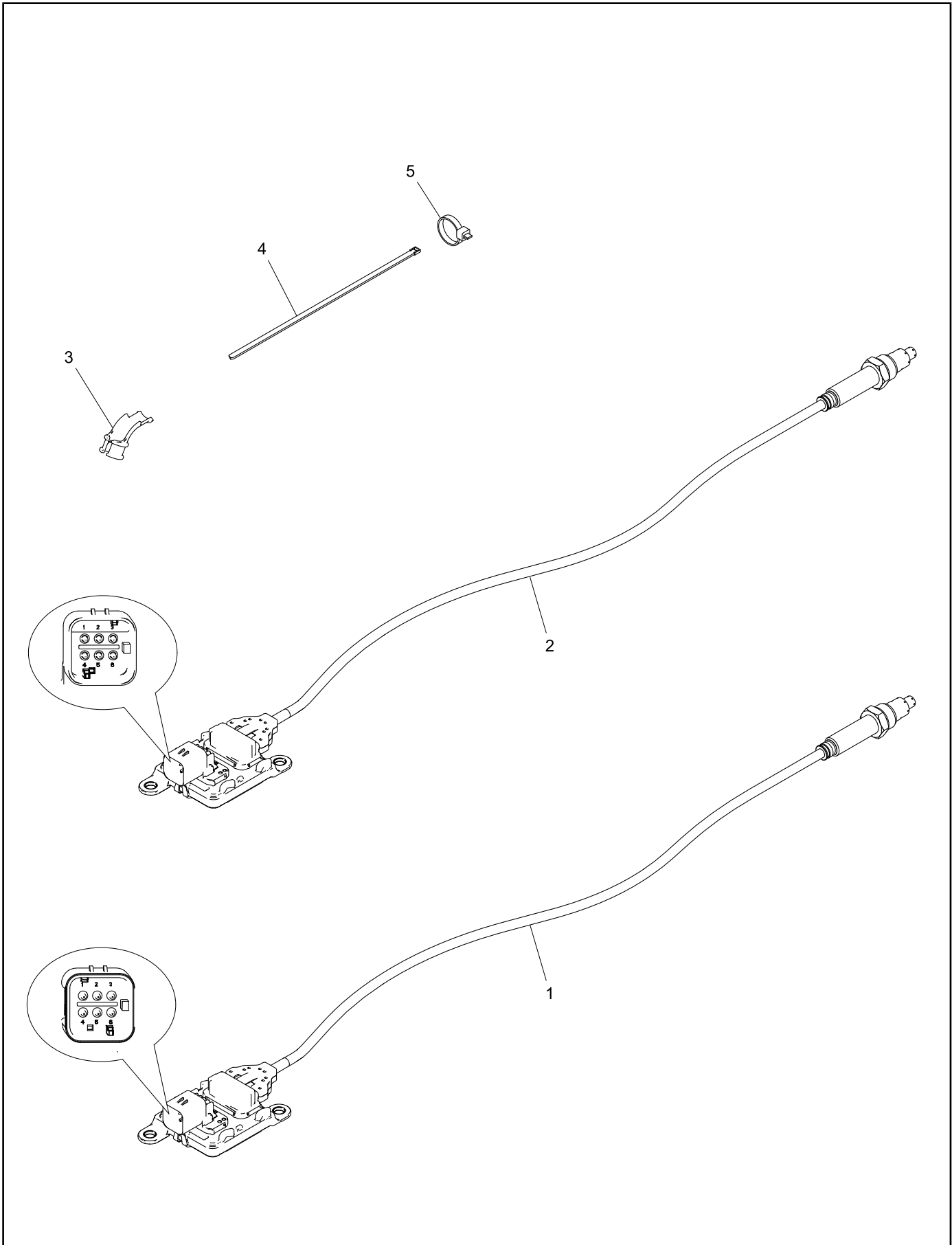
Item	Part No.	References	Qty.	Description	Notes
1	T431372		1	DEF HOSE	(1)(2)
2	T431373		1	DEF HOSE	(3)(2)

Footnotes	
(1)	DEF LINE - SUCTION
(2)	LENGTH 1500MM
(3)	DEF LINE - RETURN TO TANK



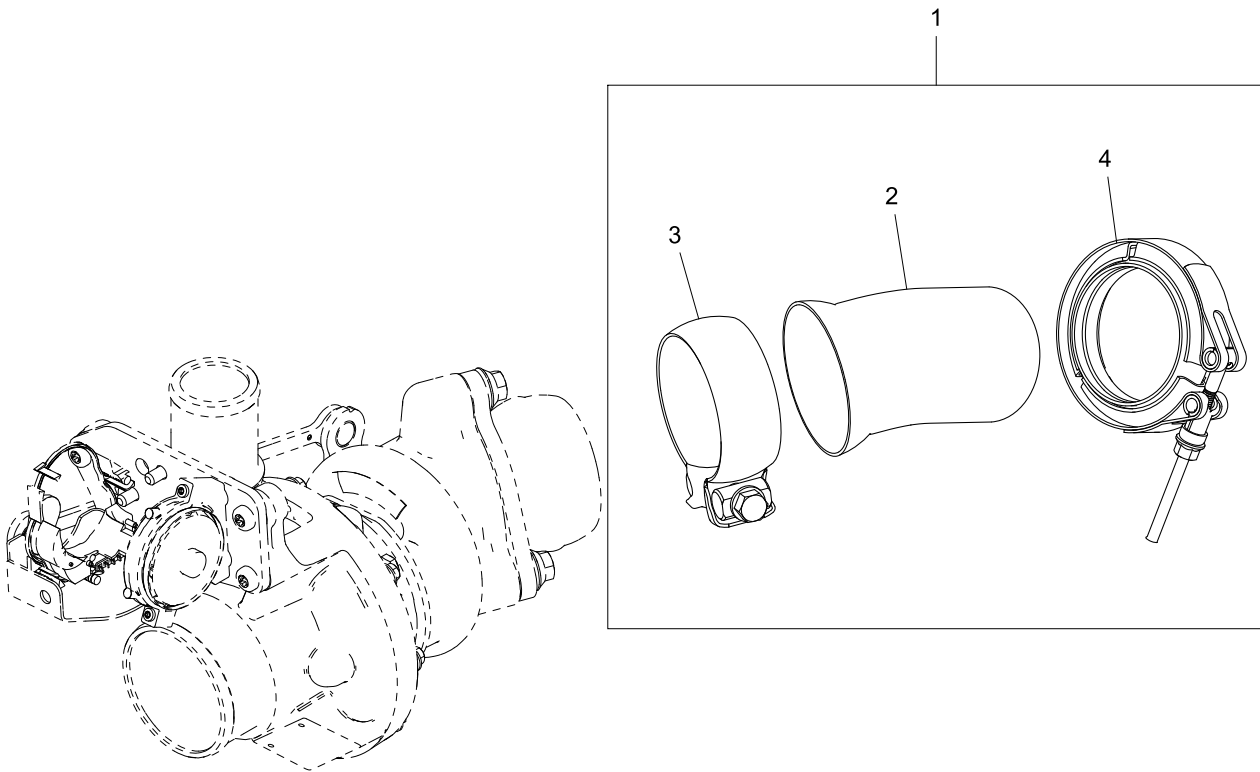
Coolant Valve	Plate A
	5103936

Item	Part No.	References	Qty.	Description	Notes
1	T431393		1	VALVE	



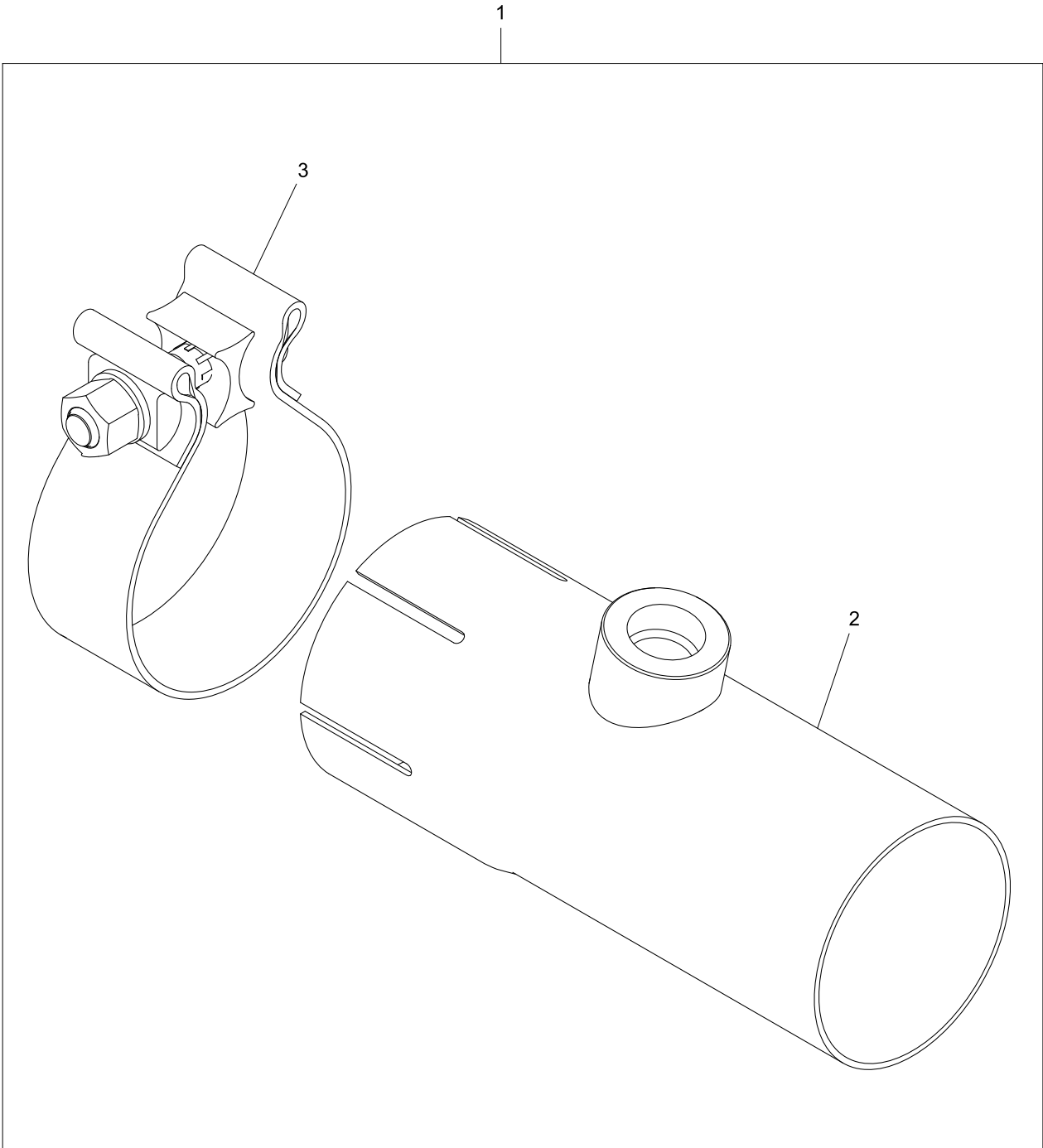
NOx Sensors	Plate A
	5141719

Item	Part No.	References	Qty.	Description	Notes
1	T431485		1	SENSOR	
2	T431486		1	SENSOR	
3	T431291		2	GUIDE	
4	T406062		2	CABLE TIE	
5	2817152		2	CABLE TIE	



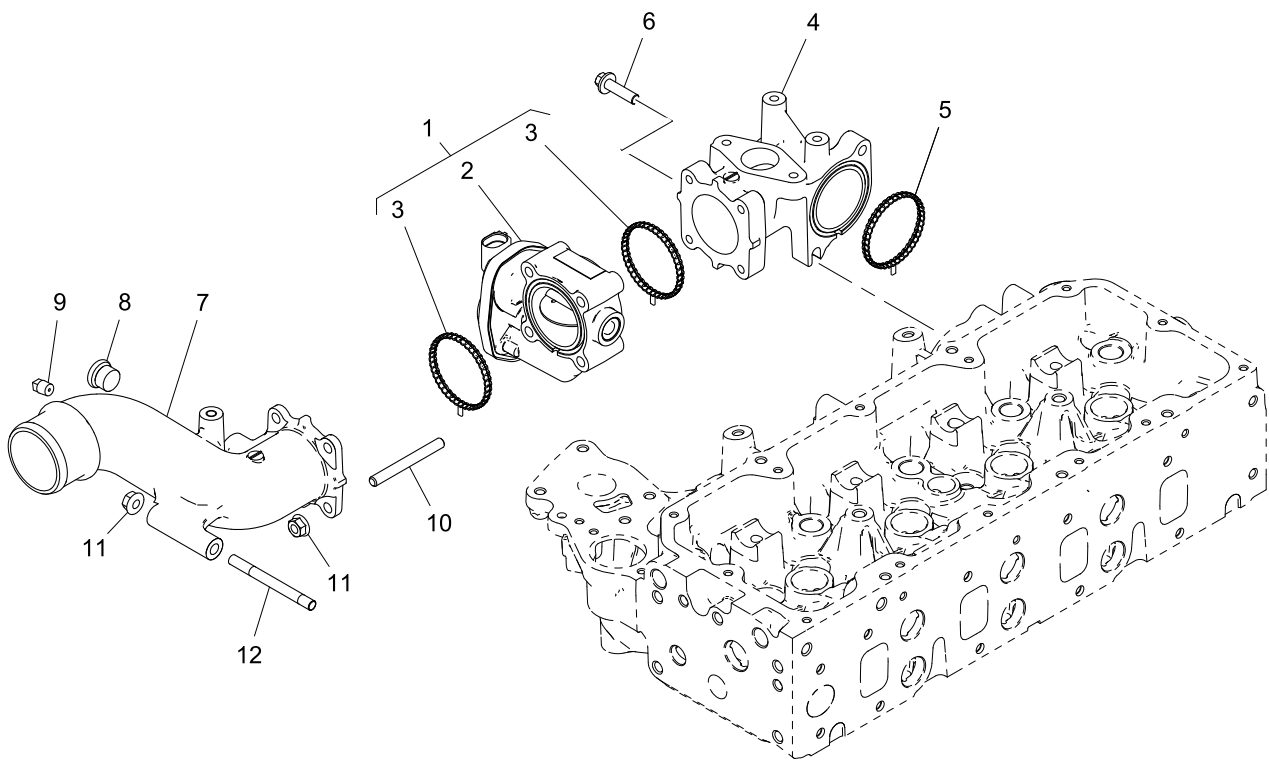
Flexible Exhaust	Plate A
	5273244

Item	Part No.	References	Qty.	Description	Notes
1	T431757		1	PIPE - EXHAUST	
2		⇒ T431757	1	PIPE - EXHAUST	
3	T431009		1	CLAMP	
4	T431003		1	CLAMP	

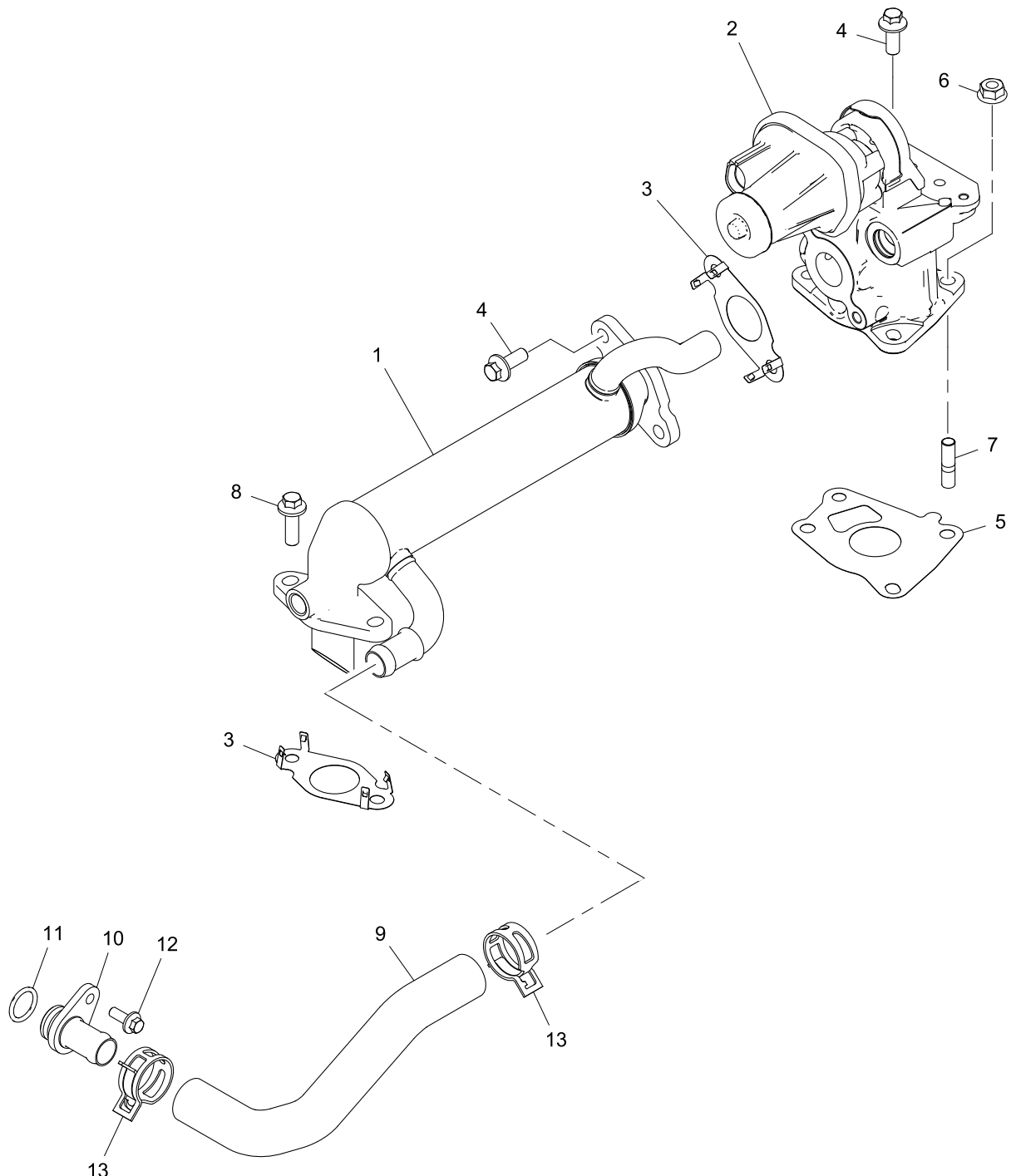


SCR Sensor Tube	Plate A
	5118795

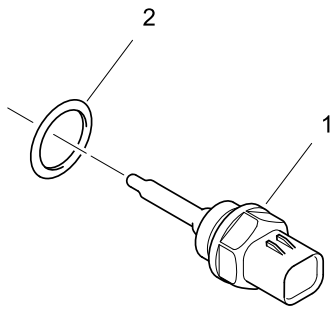
Item	Part No.	References	Qty.	Description	Notes
1	T431605		1	PIPE KIT	
2		⇒ T431605	1	TUBE	
3	T431219		1	CLAMP	



Item	Part No.	References	Qty.	Description	Notes
1	T431847	↖	1	THROTTLE	
2		⇒ T431847	1	THROTTLE	
3	T431848		2	SEAL	
4	T431849		1	INTAKE CONNECTION	
5	T431848		1	SEAL	
6	2314H005		2	SCREW	
7	T431264		1	INTAKE MANIFOLD DUCT	
8	T423993		1	PLUG	
9	0650594		1	PLUG	
10	2313H227		4	STUD	
11	2318A603		5	NUT	
12	2313C069		1	STUD	



Item	Part No.	References	Qty.	Description	Notes
1	T431302		1	EGR COOLER	
2	T431795		1	EGR VALVE	
3	T431276		2	GASKET	
4	2314H003		2	SCREW	
5	T432166		1	GASKET	
6	2318A603		3	NUT	
7	2313C058	↔	3	STUD	
8	2314H004		2	SCREW	
9	T431855		1	HOSE - AIR	
10	T431300		1	CONNECTION	
11	T431846		1	SEAL - O RING	
12	2314F004		1	SCREW	
13	21825196	↔	2	CLIP	

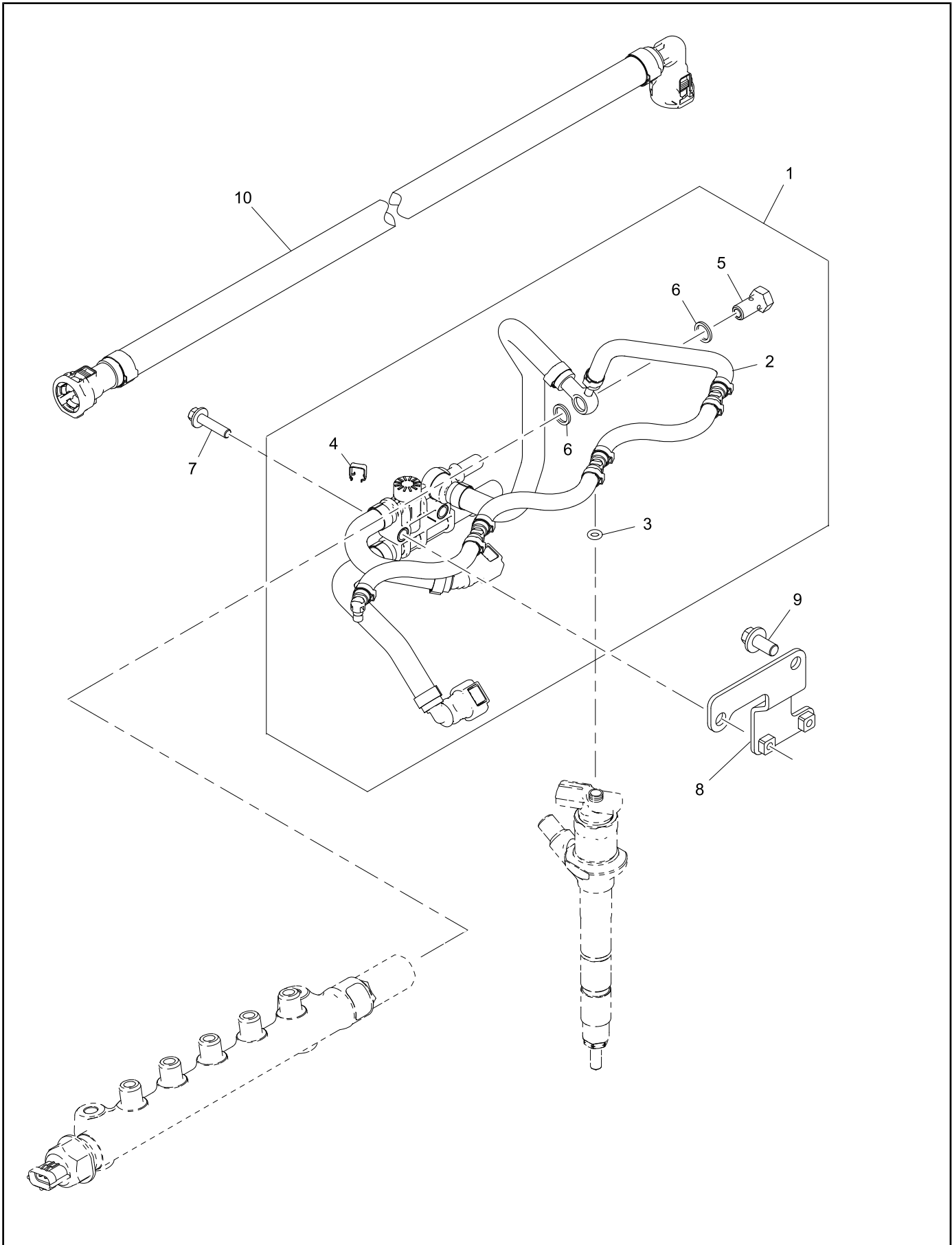


Air Cleaner & Restriction Indicator	Plate A
	3779847

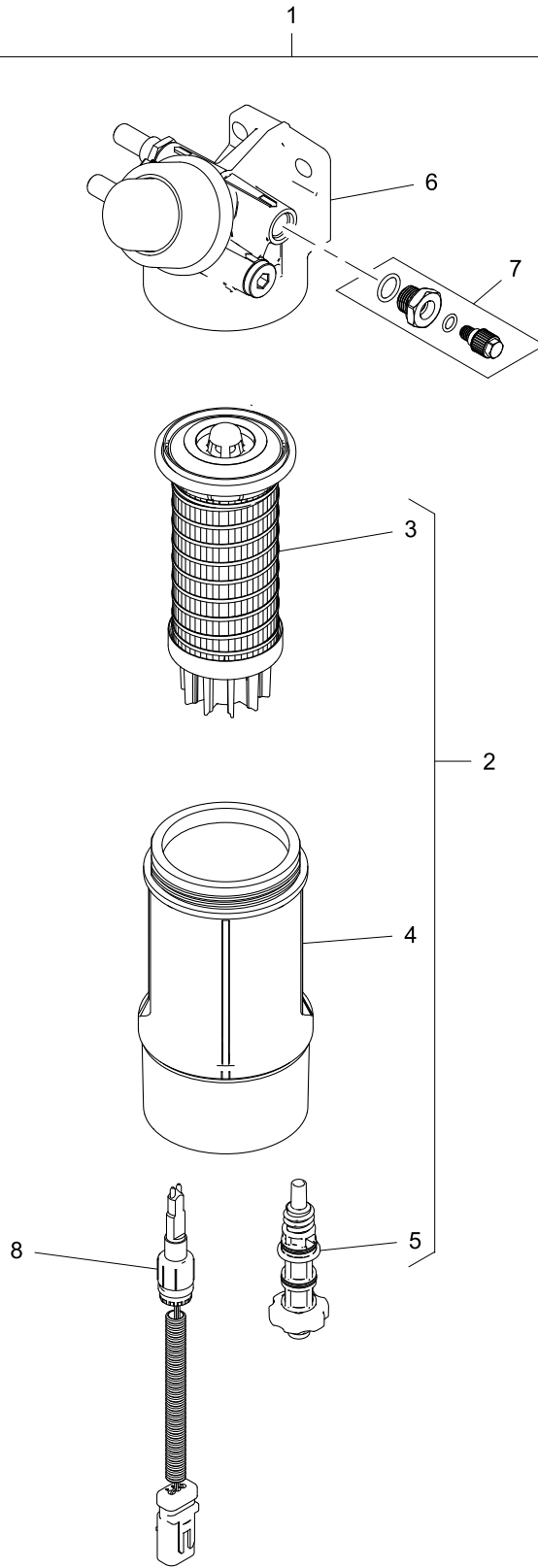
Item	Part No.	References	Qty.	Description	Notes
1	T407354		1	TEMPERATURE SENSOR	
2	2415H015		1	SEAL - O RING	

Exhaust Manifold	Plate A
	5128095

Item	Part No.	References	Qty.	Description	Notes
1	T431319		1	EXHAUST MANIFOLD	
2	T431316		1	GASKET - TURBOCHARGER	
3	2313M301		11	STUD	
4	2318A633		13	NUT	
5	2313M359		2	STUD	
6	0650002		1	PLUG	
7	2411141		1	WASHER	
8	T431101		1	GASKET - EXHAUST	
9	T431102		4	GASKET - EXHAUST MANIFOLD	
10	T431312		1	PIPE - TURBO OIL DRAIN	
11	3688A053		2	GASKET	
12	T402221		2	SCREW	
13	2314F005		2	SCREW	

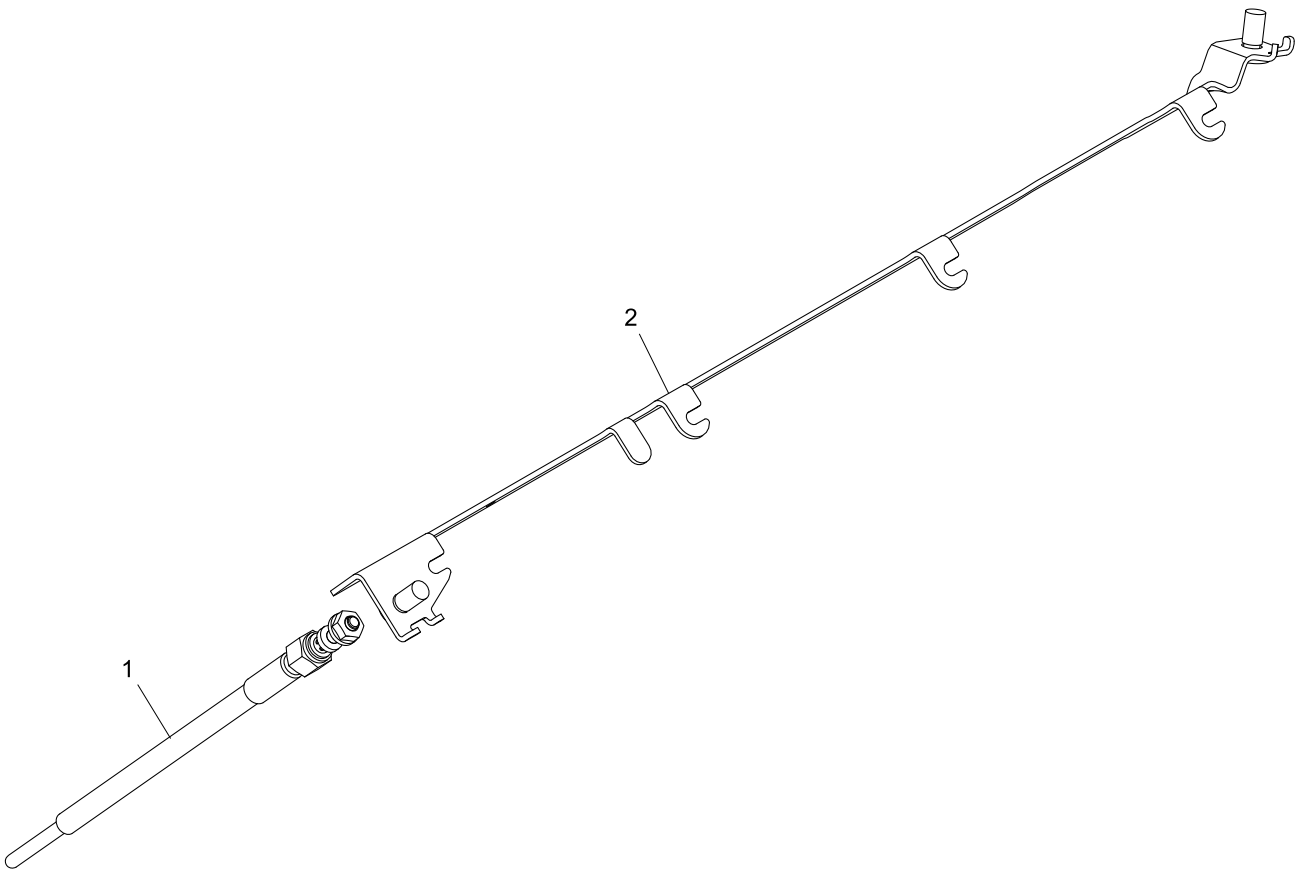


Item	Part No.	References	Qty.	Description	Notes
1	T432228		1	PIPE - FUEL INJ LEAK OFF	
2		⇒ T432228	1	PIPE - FUEL INJ LEAK OFF	
3	T431272		4	SEAL - O RING	
4	T431858		4	RETAINER	
5	T431273		1	BANJO BOLT	
6	2411D010		2	WASHER	
7	2314F006		2	SCREW	
8	T431859		1	BRACKET	
9	2314H002		2	SCREW	
10	T431910		1	HOSE - FUEL	



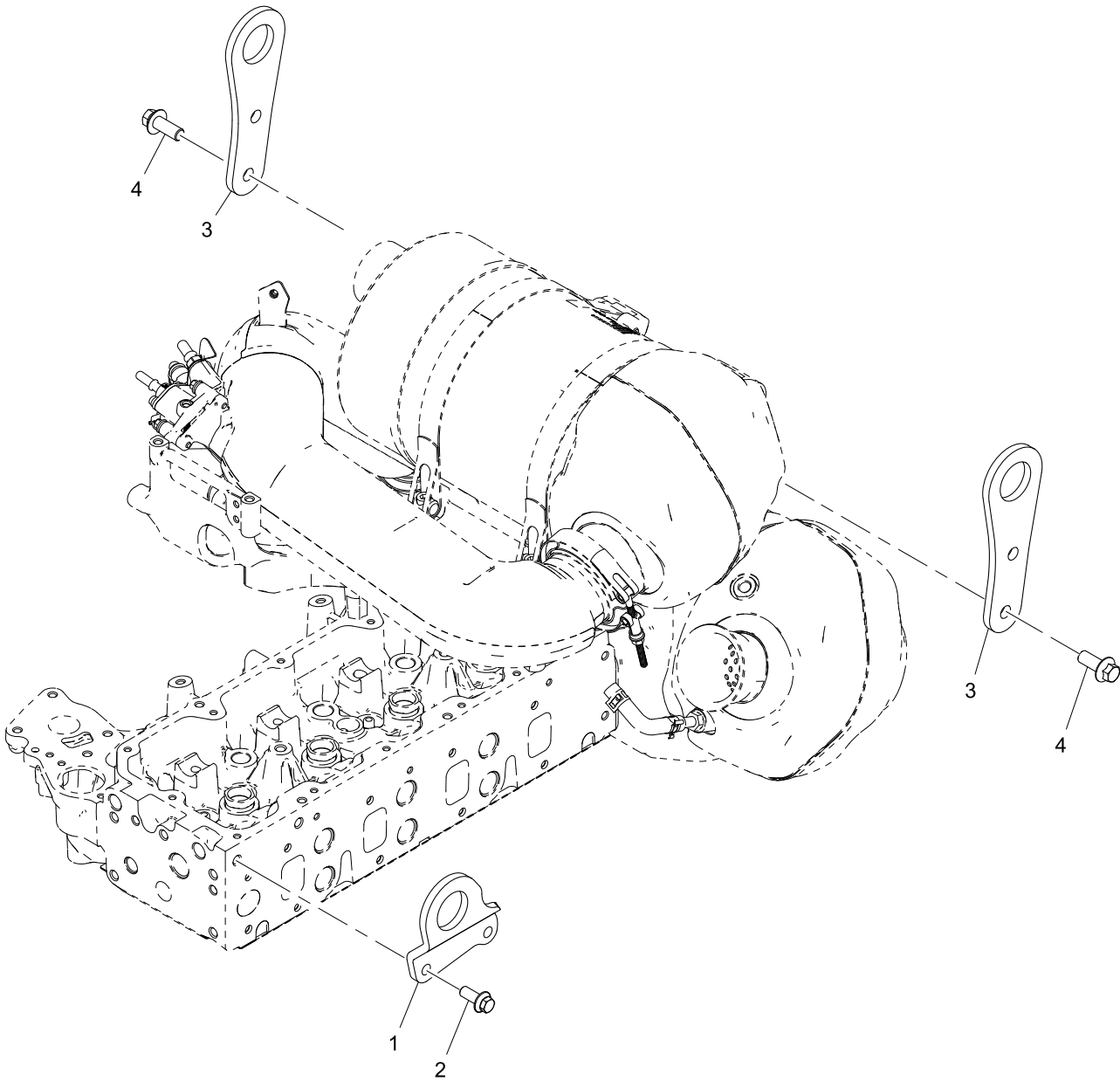
Fuel Filter	Plate A
	5242269

Item	Part No.	References	Qty.	Description	Notes
1	5405116		1	FUEL FILTER ASSEMBLY	
2		⇒ 5405116	1	FUEL FILTER ASSEMBLY	
3	4981344		1	FILTER ELEMENT	
4		⇒ 5405116	1	FUEL FILTER BODY	
5	T432557		1	DRAIN PLUG	
6		⇒ 5405116	1	FUEL FILTER HEAD	
7	T422548		1	BLEEDER	
8	T431992		1	WATER SEPARATOR SENSOR	



Cold Start System	Plate A
	4875919

Item	Part No.	References	Qty.	Description	Notes
1	T431692		4	GLOWPLUG	
2	T431691		1	BUSBAR	

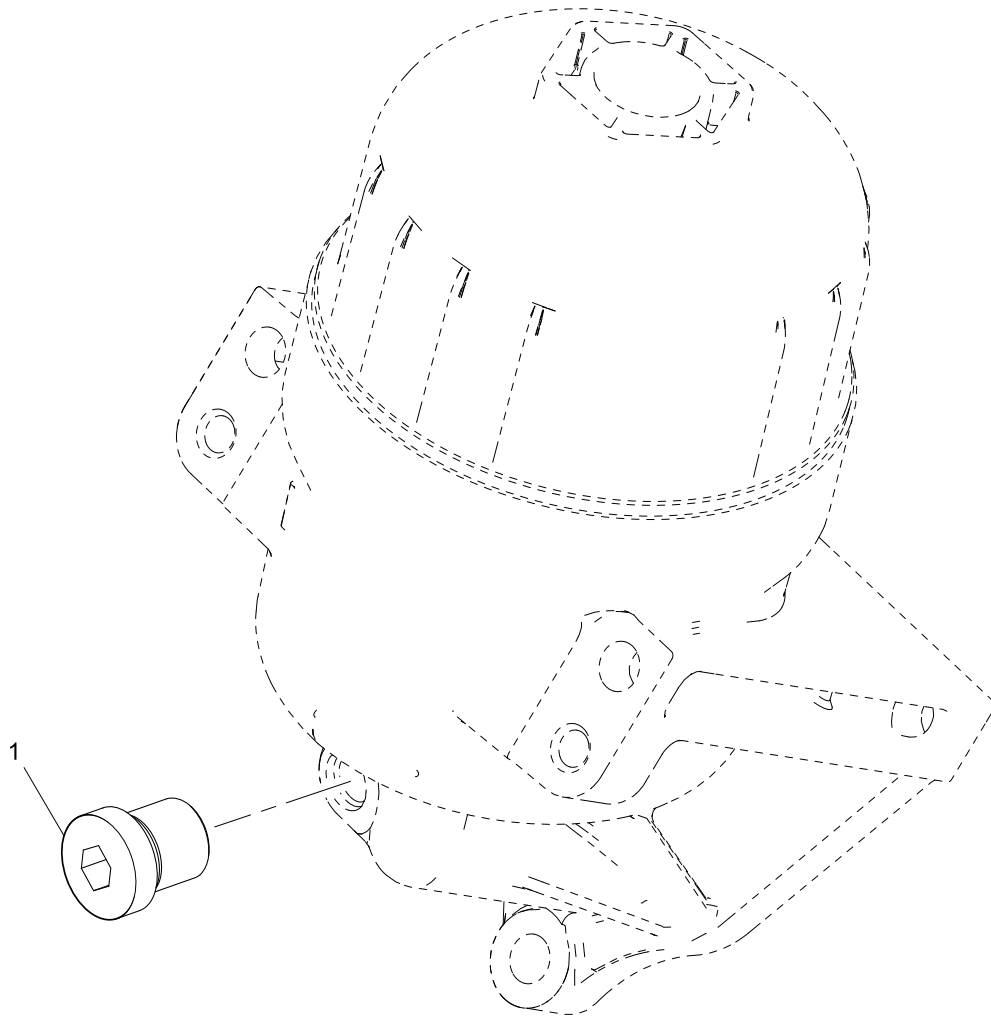


Engine Lifting Eyes

Plate A

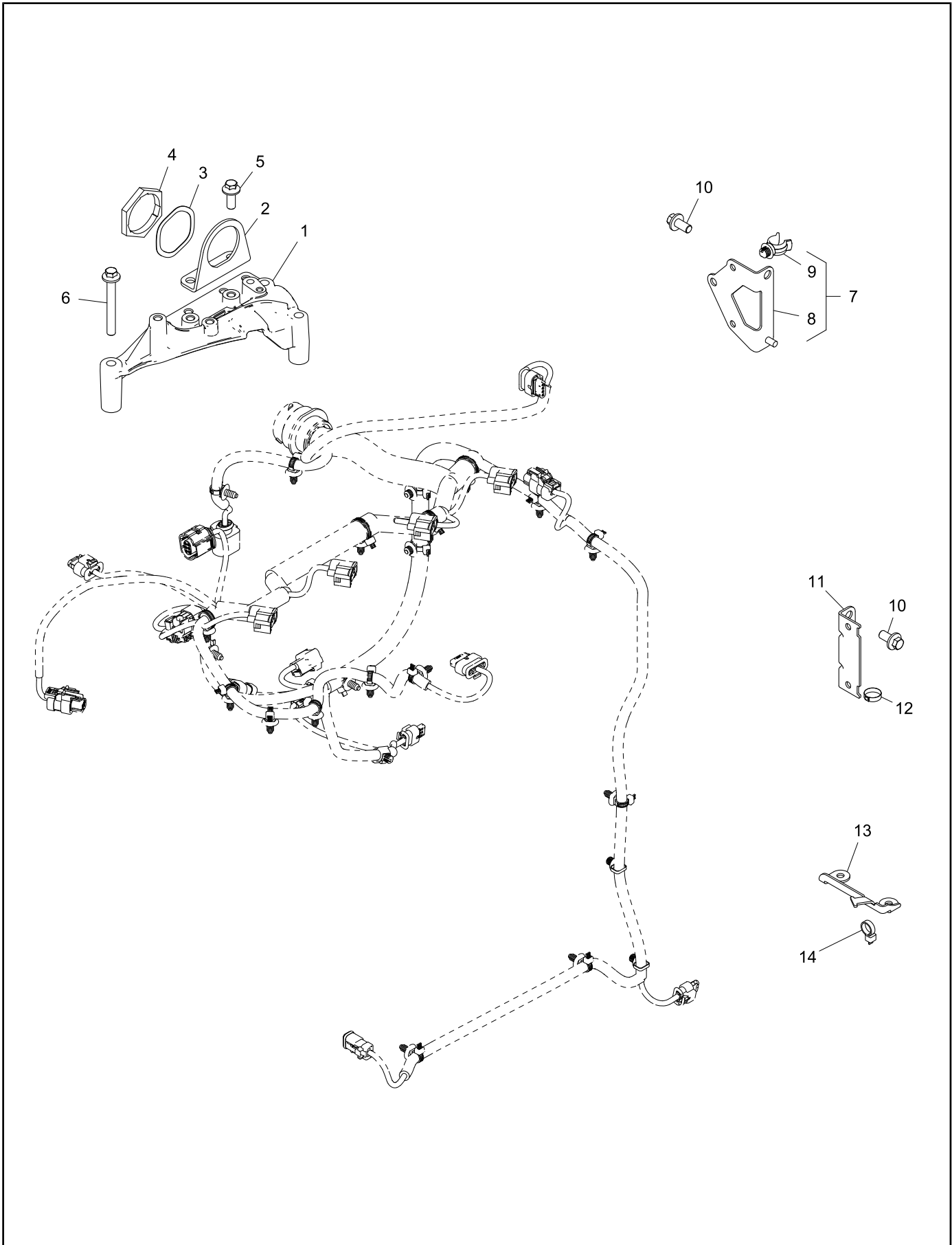
5602128

Item	Part No.	References	Qty.	Description	Notes
1	T431761		1	LIFTING BRACKET	
2	2314J003		2	SCREW	
3	T431911		2	LIFTING EYE	
4	2314J603		4	SCREW	

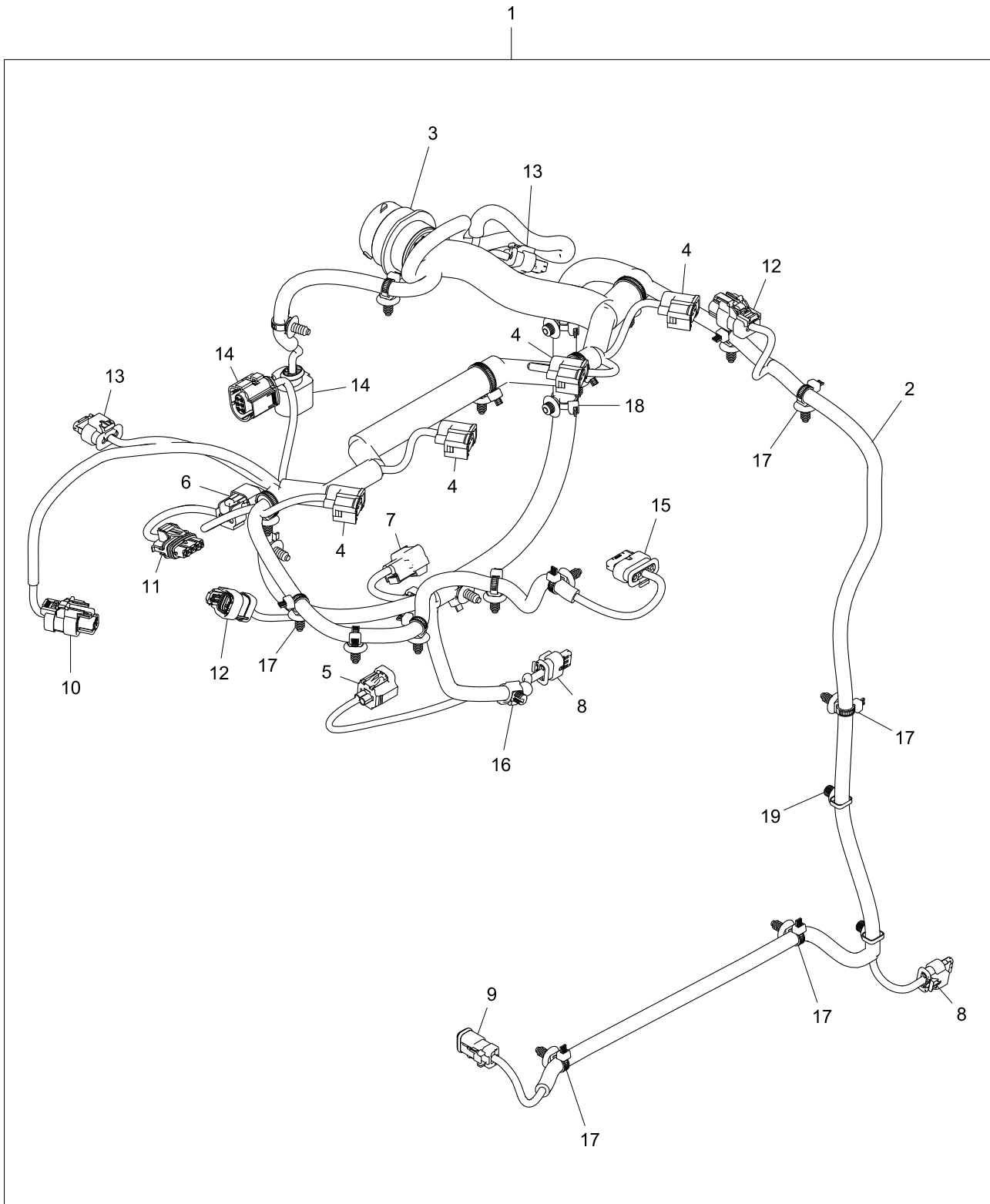


Lubricating Oil Pressure Switch and Gauge	Plate A
	5261948

Item	Part No.	References	Qty.	Description	Notes
1	2487A208		1	PLUG	



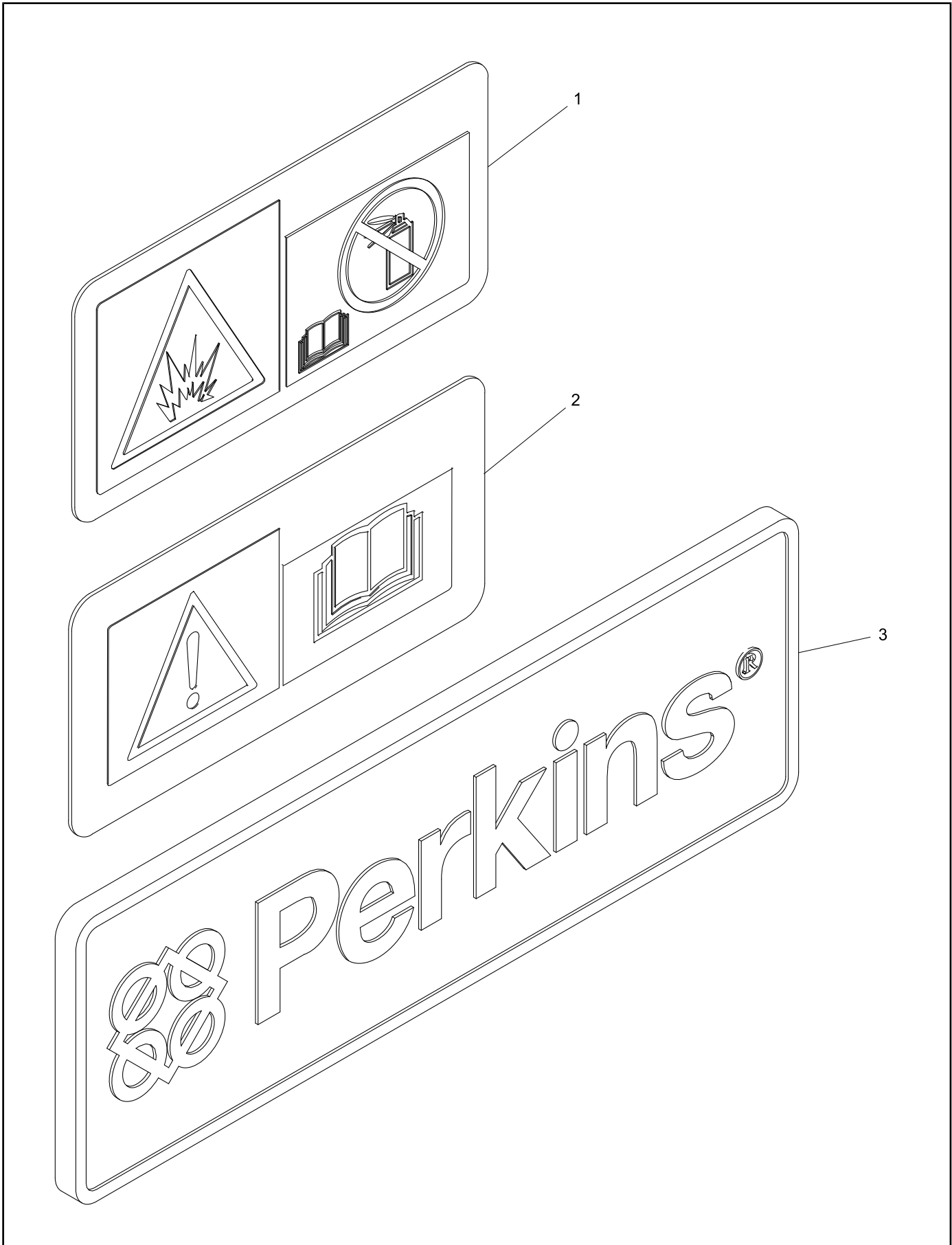
Item	Part No.	References	Qty.	Description	Notes
1	T433201		1	BRACKET	
2	T431265		1	BRACKET	
3	T406692		1	WASHER	
4	2188A001		1	NUT	
5	2314H003		2	SCREW	
6	2314H012		3	SCREW	
7	T432475		1	BRACKET	
8		⇒ T432475	1	BRACKET	
9	2481D562		1	PIPE CLIP	
10	2314H002		3	SCREW	
11	T431258		1	BRACKET	
12	T406062		2	CABLE TIE	
13	T433202		1	BRACKET	
14	2817152		1	CABLE TIE	



Item	Part No.	References	Qty.	Description	Notes
1	T432563		1	WIRING HARNESS	
2		⇒ T432563	1	HARNESS	
3		⇒ T432563	1	ELECTRICAL CONNECTOR	
4	T432520		4	ELECTRICAL CONNECTOR	(1)
5	T409414		1	ELECTRICAL CONNECTOR	(1)
6	T409257		1	ELECTRICAL CONNECTOR	(1)
7	T409366		1	ELECTRICAL CONNECTOR	(1)
8	T431518		2	ELECTRICAL CONNECTOR	(1)
9	T432525		1	ELECTRICAL CONNECTOR	
10	T405217		1	PLUG	
11	T432519		1	ELECTRICAL CONNECTOR	(1)
12	T431200		2	ELECTRICAL CONNECTOR	
13	T431531		2	ELECTRICAL CONNECTOR	(1)
14	T432518		2	ELECTRICAL CONNECTOR	(1)
15	T432517		1	ELECTRICAL CONNECTOR	(1)
16	T407702		1	CLIP	
17	T409240		18	CABLE TIE	
18	T432403		2	CLIP	
19	2817A006		2	CABLE TIE	

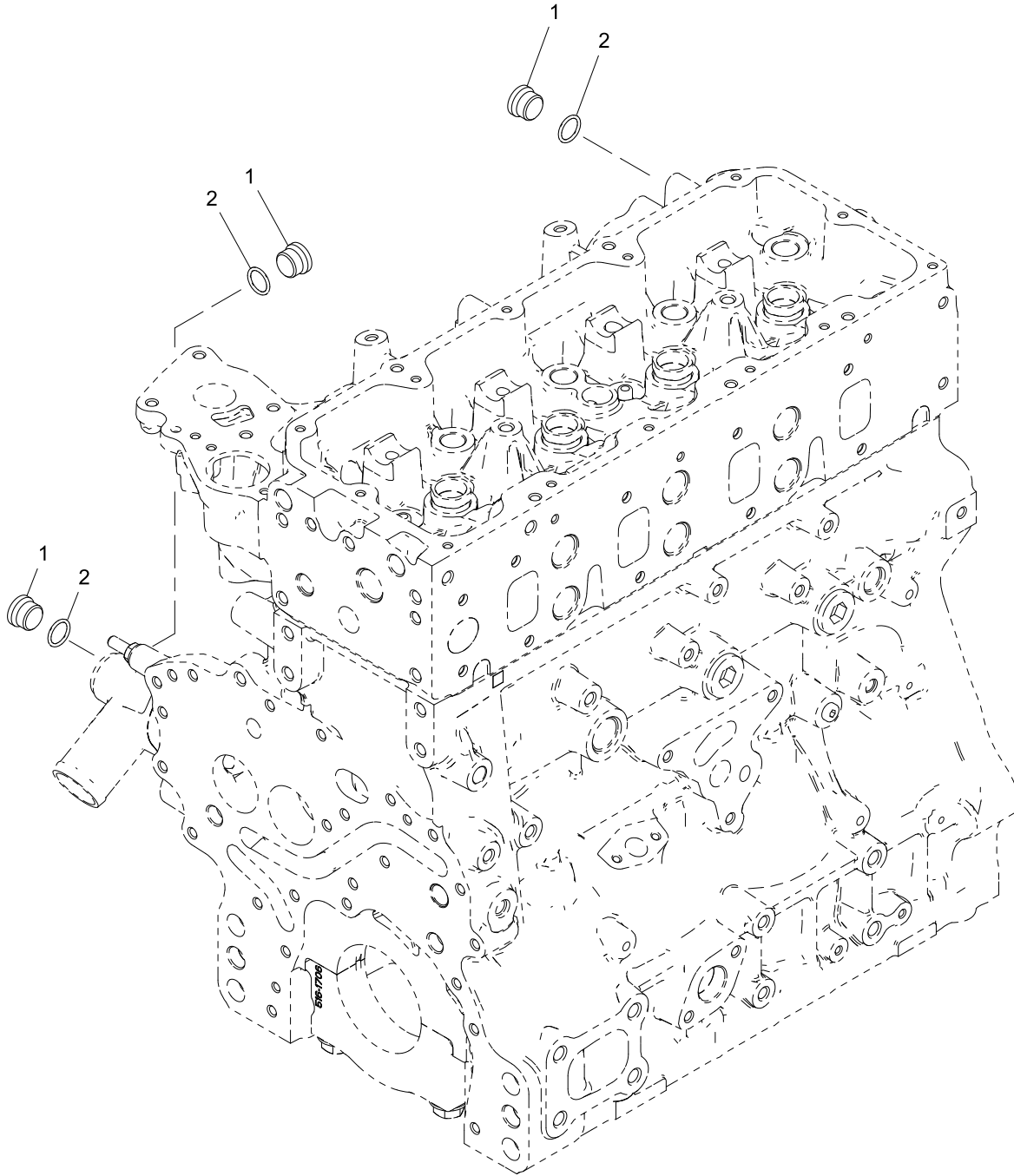
Footnotes

(1) INCLUDES - ELECTRICAL CONNECTOR/WIRES/SPLICED CONNECTORS



Engine Identification Labels	Plate A
	5102803

Item	Part No.	References	Qty.	Description	Notes
1	T405659		1	LABEL	
2	T406494		2	LABEL	
3	3181A049		1	LABEL	



Item	Part No.	References	Qty.	Description	Notes
1	CH10287		3	PLUG	
2	CH10146		3	SEAL - O RING	

ACTUATOR KIT			
T431948	87		
ADAPTOR			
T422775	73		
T430176	97		
T431169	39		
T431856	91		
T432034	65		
AIR PRESSURE SENSOR			
T431240	45		
ALTERNATOR			
T412400	81		
ALTERNATOR BRACKET			
T431351	81		
T434569	81		
ALTERNATOR PULLEY			
T432243	81		
ANTI CONTAMINATION KIT			
T400383	103		
BANJO BOLT			
3218R036	83		
T423366	73		
T431273	125		
BEARING			
T434739	53		
BEARING HOLDER ASSEMBLY			
T431767	83		
T432944	83		
BELT			
5203850	59		
BIG END BEARING KIT			
T431940	19, 31		
BIG END BRG KIT - U/S			
T431941	19, 32		
T431942	19, 32		
T431943	19, 32		
BLEEDER			
T422548	127		
BOLT			
CH10922	53		
T400588	77		
T433494	53		
BRACKET			
T431014	97		
T431258	135		
T431265	135		
T431588	95		
T431859	125		
T432475	135		
T433201	135		
T433202	135		
T433618	95		
BRACKET ASSEMBLY			
T431322	81		
BREATHER VALVE			
T431350	65		
BRIDGE PIECE			
T431135	25		
T433584	23		
T434681	23		
BUSBAR			
T431691	129		
BUSH			
135591250	65		
CABLE TIE			
2817152	111, 135		
2817A006	137		
T406062	111, 135		
T409240	137		
T409408	45, 49		
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T431321	27		
CAMSHAFT GEAR			
T431107	27		
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3311A025	23, 25, 35		
T400378	103		
T414486	101		
T431946	73		
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T431090	23, 25		
T431800	83		
T431950	87		
T431959	19, 31		
T432975	53		
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T401324	93		
T420227	99		
T431002	97		
T431003	113		
T431009	113		
T431012	95		
T431219	115		
CLEAN EMISSIONS MODULE			
T431016	97		
CLIP			
0180170	73		
21825196	119		
36565517	73		
T407702	137		
T431681	89		
T432403	137		
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T431134	19, 31		
CON ROD BOLT			
T400001	19, 31		
CONNECTION			
T400379	103		
T400380	103		
T400382	103		

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T431300	119	T409366	137
T432032	65	T409414	137
T432334	65	T431200	137
CONNECTOR		T431518	137
T431079	103	T431531	137
CONTROL UNIT		T432517	137
T431400	51	T432518	137
COVER		T432519	137
T409969	83	T432520	137
CRANKSHAFT ASSEMBLY		T432525	137
T431179	17, 31	EXHAUST MANIFOLD	
CRANKSHAFT BOLT		T431319	123
T431797	75	EXHAUST VALVE	
CRANKSHAFT PULLEY		T431095	23, 25, 35
T431173	75		
CYLINDER HEAD ASSEMBLY		FILTER	
T431952	35	T431008	99
CYLINDER HEAD BOLT		T435902	103
T431260	21	FILTER ELEMENT	
CYLINDER HEAD COVER		4981344	127
T433428	67	T400377	103
		FLYWHEEL ASSEMBLY	
DEF HOSE		T431834	55
T416245	105	T434689	55
T431372	107	FLYWHEEL BOLT	
T431373	107	T431762	55
DEF MANIFOLD		T435139	55
T434680	99	FLYWHEEL HOUSING	
DEF PUMP		T433661	53
T435130	103	FUEL FILTER ASSEMBLY	
DEF SENSOR KIT		5405116	127
T434977	99	FUEL INJECTION PUMP GEAR	
DEF TANK		T431129	39
T431933	101	FUEL RAIL	
DIESEL PARTICULATE FILTER		T431306	41
T433389	97		
T433389P	97	GASKET	
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DRAIN PLUG		T434183	21
T420221	101	T434184	21
T432557	127	GASKET - EXHAUST	
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T431295	67	GASKET - EXHAUST MANIFOLD	
		T431102	123
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T431302	119	T431261	71
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T431259	77	MAIN BEARING KIT	
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T431752	85	MAIN BEARING KIT - U/S	
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T431299	93	OIL COOLER	
T431304	93	T431267	71
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T431855	119	T431298	67
T432333	65	OIL FILTER ASSEMBLY	
HOSE - FUEL		T403680	73
T431910	125	OIL FILTER KIT	
HOSE CLIP		5698037	73
2481B018	93, 97	OIL PRESSURE SENSOR	
2481D075	65	T431758	47
T428346	65	OIL PUMP	
		T431751	85
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T431868	53	T431274	93
T434138	53	T433635	93
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T431353	59	T433641	93
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T431143	37	PIPE - AIR	
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T431849	117	PIPE - EXHAUST	
INTAKE MANIFOLD DUCT		T431757	113
T431264	117	PIPE - FUEL INJ LEAK OFF	
INTAKE VALVE		T432228	125
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		T431313	41
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T406494	139	PIPE - OIL	
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PIPE KIT		T432244	25
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