

CATERPILLAR 248

6LZ / SEBP3425

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188-8692 CAMSHAFT GP S/N 3NW12500-UP PART OF 159-9214 ENGINE AR-PRIMARY

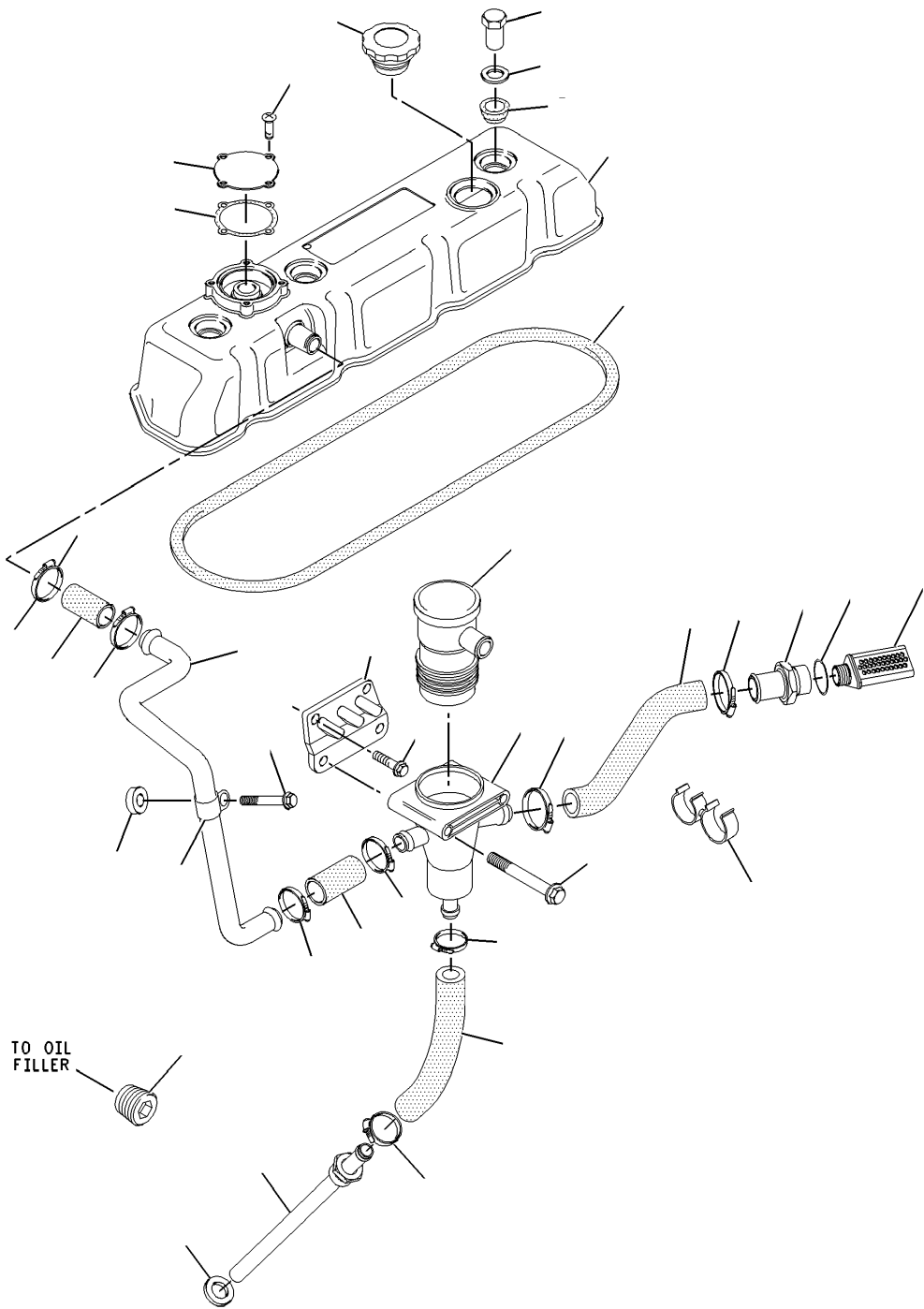
This exploded view diagram illustrates the assembly of a mechanical component. The main assembly consists of a long, threaded shaft with a series of conical or fluted sections. A circular flange with a central hole is positioned to be mounted onto the left end of the shaft. A bolt is shown passing through the flange and the shaft. A small, semi-circular pin is shown near the flange. Below the main assembly, a large gear with many teeth is shown. A shaft with a keyway is shown passing through the gear. A circular washer or spacer is shown to the right of the gear. A small circular component is shown to the left of the gear. The diagram uses solid lines for the main components and dashed lines for the shaft and keyway to indicate their relative positions and assembly sequence.

CAT codes: M.

195-9243 COVER GP-VALVE MECHANISM

195-9243 COVER GP-VALVE MECHANISM S/N 3NW12500-UP PART OF 159-9214 ENGINE AR-PRIMARY

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	195-9244	COVER-VALVE	1		
2	177-3304	GASKET-VALVE COVER	1		
3	4B-4281	WASHER (16.8X33X2.5-MM THK)	3		
4	5D-1026	CLAMP-BAND	8		
5	101-3675	SEAL	3		

195-9243 COVER GP-VALVE MECHANISM (continued)

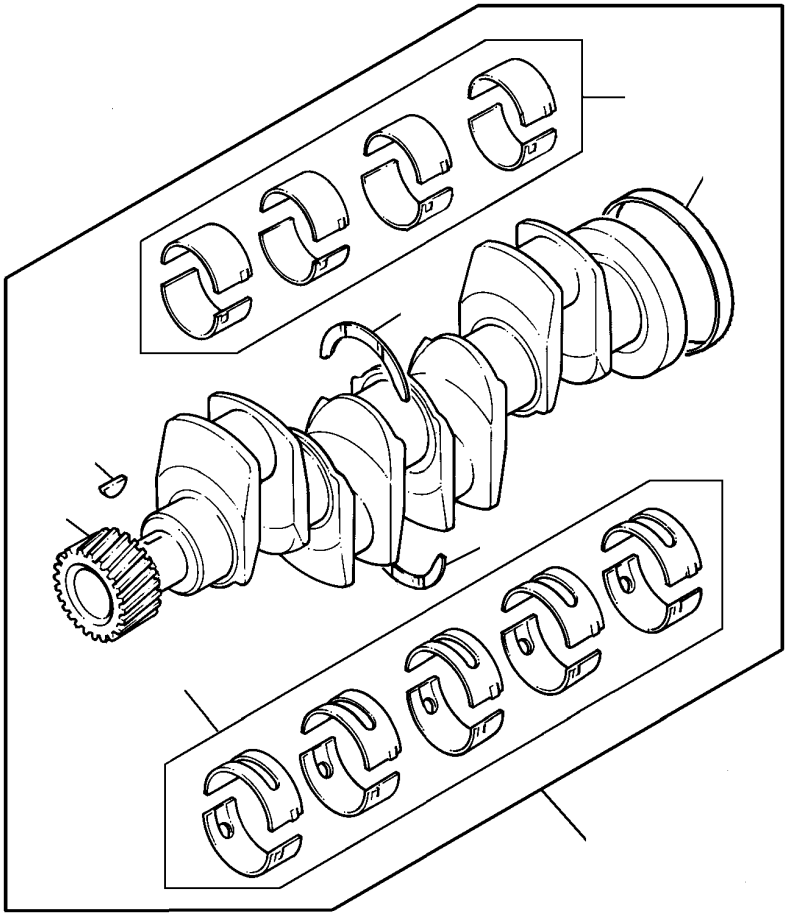
Ref.	Part number	Description	Qty	Code	Group page
6	153-0112	NUT	3		
7	195-9245	SCREW (M4X0.7X10-MM)	4	M	
8	170-7666	CAP-OIL (ENGINE)	1		
9	6I-0839	BOLT (M8X1.25X70-MM)	1	M	
10	146-2698	BRACKET AS	1		
11	146-2701	ADAPTER	1		
12	5C-1809	SPACER (8X19X6.5-MM)	1		
13	170-7667	PLATE	1		
14	170-7668	GASKET-PLATE	1		
15	170-7669	HOSE (FUMES DISPOSAL)	2		
16	170-7675	VALVE (CRANKCASE BREATHER ELEMENT)	1		
17	170-7677	TUBE-AIR	1		
17A	195-9246	CLIP	1		
18	195-9248	ADAPTER-HOSE (CRANKCASE BREATHER)	1		
19	195-9253	WASHER	1		
20	6I-4200	BOLT (M10X1.5X16-MM)	1	M	
21	067-6006	PLUG	2		
22	195-9254	CONNECTION AS	1		
22A	170-7682	SEAL-O-RING	1		
23	192-8754	HOSE-BREATHER	1		
24	192-8755	CLIP	1		
25	146-7810	TUBE-AIR	1		
26	195-9255	DEFLECTOR-BREATHER (CRANKCASE)	1		
27	103-5705	BOLT (M8X1.25X110-MM)	1	M	

CAT codes: M.

188-5104 CRANKSHAFT GP

188-5104 CRANKSHAFT GP S/N 3NW12500-UP PART OF 159-9214 ENGINE AR-PRIMARY

Drawing 1 of 1



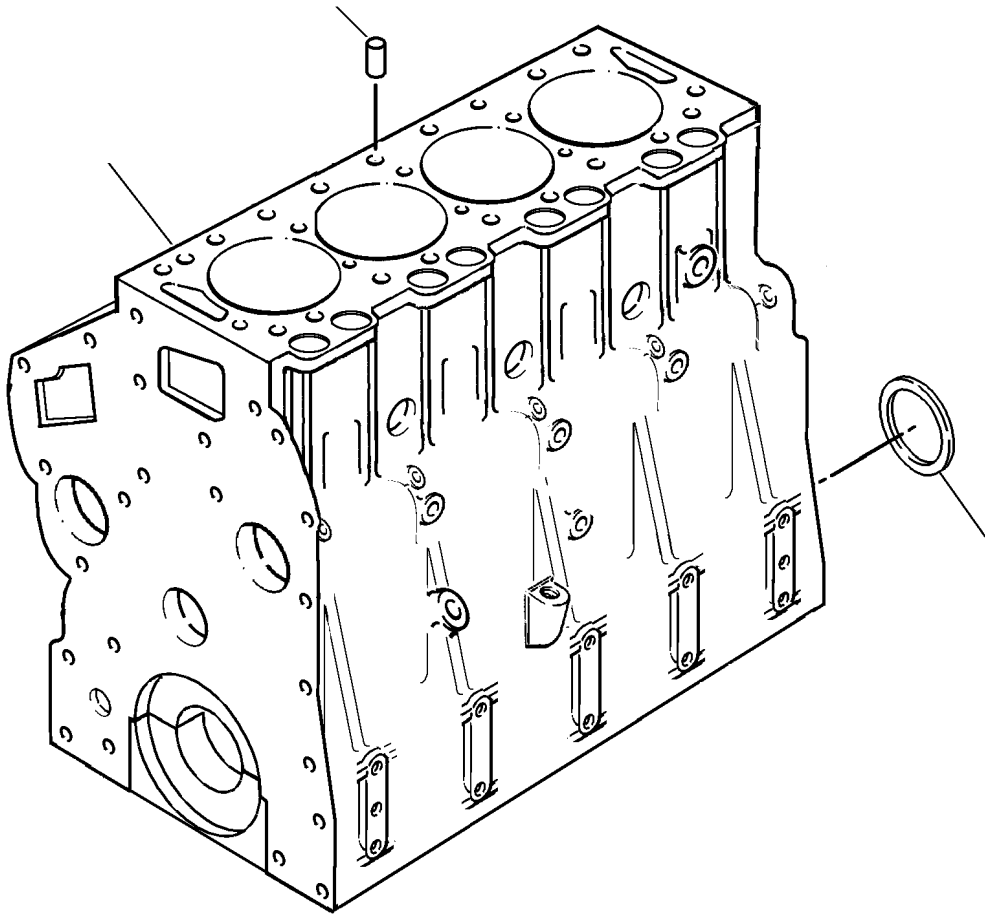
Ref.	Part number	Description	Qty	Code	Group page
1	173-1280	CRANKSHAFT GP	1		
2	1B-8736	KEY-WOODRUFF	1		
3	152-6791	KIT-BEARING (STANDARD)	1		
	152-6792	KIT-BEARING (0.25-MM US)		AB	
	152-6793	KIT-BEARING (0.5-MM US)		AB	
	152-6794	KIT-BEARING (0.75-MM US)		AB	
4	152-6799	WASHER-THRUST	2		
5	152-6801	GEAR-CRANKSHAFT (30-TEETH)	1		
6	173-1272	KIT-BEARING	1		
7	188-8545	SLEEVE AS-WEAR (INCLUDES INSTALLATION TOOL)	1		

CAT codes: A, B.

188-5101 CYLINDER BLOCK GP

188-5101 CYLINDER BLOCK GP S/N 3NW12500-UP PART OF 159-9214 ENGINE AR-PRIMARY

Drawing 1 of 1



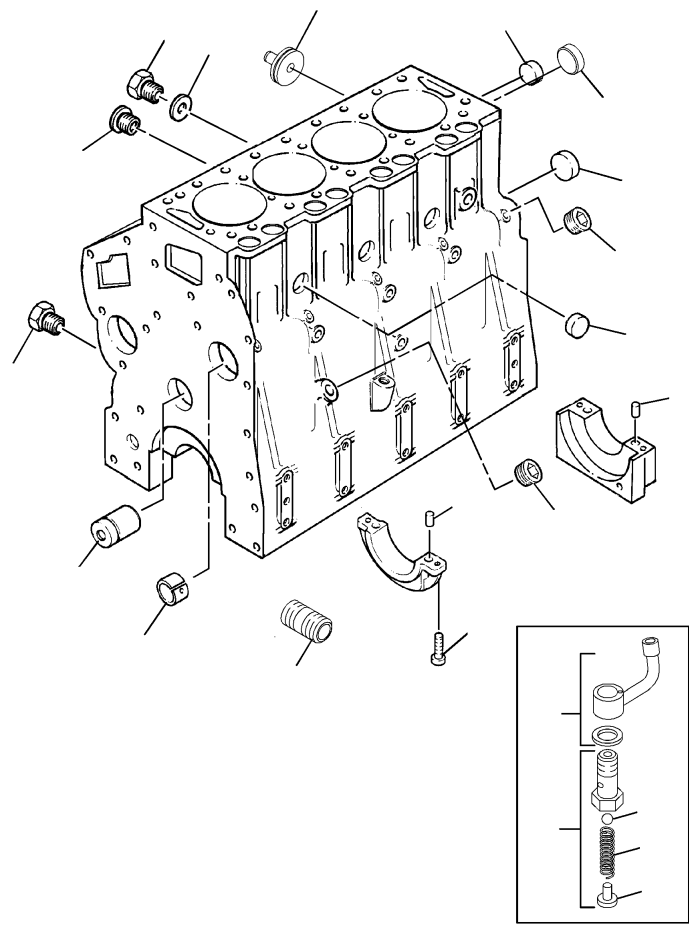
Ref.	Part number	Description	Qty	Code	Group page
1	205-5491	CYLINDER BLOCK GP	1	Y	
2	152-6555	DOWEL	2		
3	152-6556	SEAL	1		

CAT codes: Y.

205-5491 CYLINDER BLOCK GP

205-5491 CYLINDER BLOCK GP S/N 3NW12500-UP PART OF 188-5101 CYLINDER BLOCK GP

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	343-4295	PLUG	1		
2	1W-8438	WASHER (19.43X26.97X2.64-MM THK)	1		
3	6I-1074	VALVE AS (OIL JET)	4		
(EACH INCLUDES)					
3A	6I-0686	SPRING	1		
3B	5B-9318	BALL	1		
3C	6I-1076	RETAINER			
7	9F-2247	PLUG-PIPE (1/8-27-THD)	1		
8	9Y-5015	PLUG-FREEZE	3		
10	067-6007	PLUG	1		
11	067-9509	PLUG	2		
12	069-1124	PLUG	1		
14	142-7267	JET AS-PISTON COOLING	4		
16	152-6557	SEAL	2		
17	152-6558	BOLT	10		

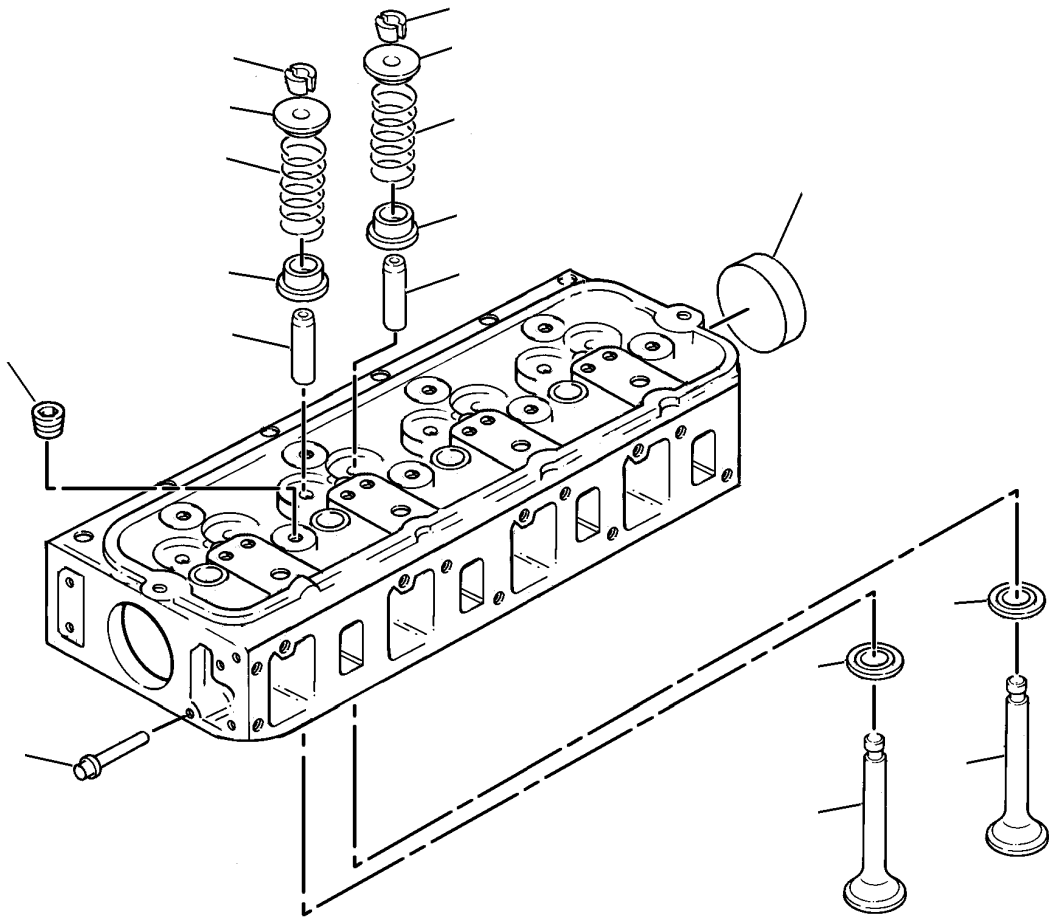
205-5491 CYLINDER BLOCK GP (continued)

Ref.	Part number	Description	Qty	Code	Group page
18	152-6559	SHAFT	1		
19	152-6561	SEAL	4		
20	153-0562	ADAPTER	1		
21	067-6006	PLUG	1		
22	118-9145	CONNECTOR	1		
23	175-4921	BUSHING	1		
24	188-5102	PLUG	3		
25	173-0418	ADAPTER	1		

172-6704 CYLINDER HEAD GP

172-6704 CYLINDER HEAD GP S/N 3NW12500-UP PART OF 188-8632 CYLINDER HEAD GP

Drawing 1 of 1

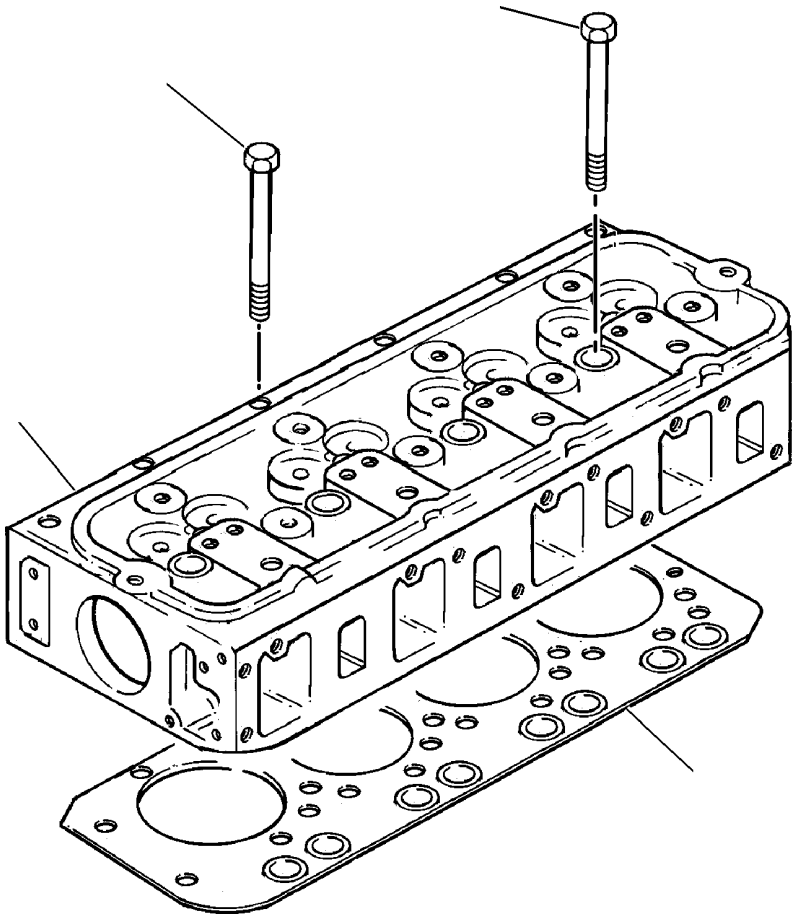


Ref.	Part number	Description	Qty	Code	Group page
1	7W-2501	PLUG	1		
2	152-9857	VALVE-EXHAUST	4		
3	152-9858	SPRING	8		
4	152-9859	CAP	8		
5	152-9860	RETAINER	16		
6	188-8633	GUIDE-VALVE	8		
7	192-6335	SEAL	8		
8	188-8636	INSERT-VALVE SEAT (EXHAUST)	4		
9	188-8637	INSERT-INLET	4		
10	188-8640	VALVE-INLET	4		
11	2B-0858	PLUG-PIPE	4		
12	9Y-5015	PLUG-FREEZE	2		

188-8632 CYLINDER HEAD GP

188-8632 CYLINDER HEAD GP S/N 3NW12500-UP PART OF 159-9214 ENGINE AR-PRIMARY

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	152-9862	BOLT-CYLINDER HEAD (M11X1.5X104-MM)	14		
2	152-9863	BOLT-CYLINDER HEAD	4		
3	152-9864	GASKET-CYLINDER HEAD	1		
4	172-6704	CYLINDER HEAD GP	1	Y	

CAT codes: Y.

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