

CATERPILLAR 990 II

4FR / SEBP2431

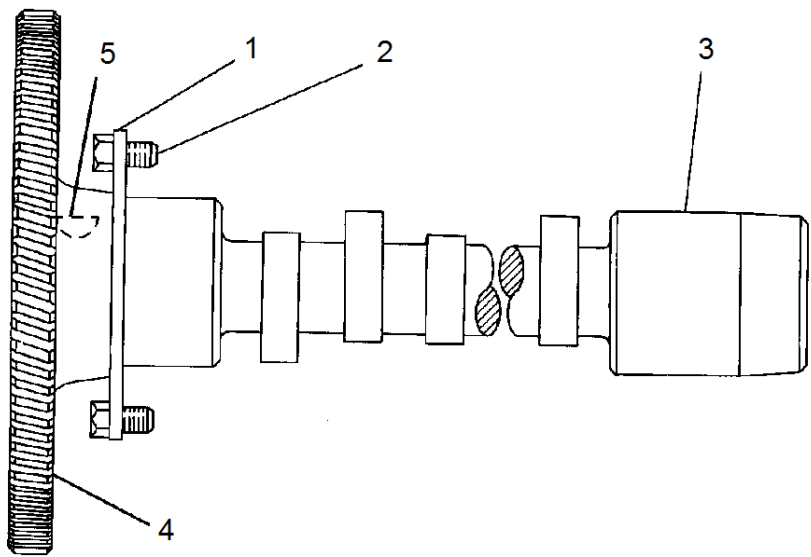
Contents

Section	Page
Basic engine	2
Lubrication system	
Cooling system	
Air inlet and exhaust	
Fuel system	
Basic engine	
Basic engine	
Electrical and electronics	
Power train	
Hydraulic system	
Power train	
Hydraulic system	
Hydraulic system	
Labels, kits and diagnostics	
Air inlet and exhaust	
Catalog items	
Cooling system	

108-1553 CAMSHAFT GP

108-1553 CAMSHAFT GP S/N 80M1-UP PART OF 122-1117 ENGINE AR

Drawing 1 of 1



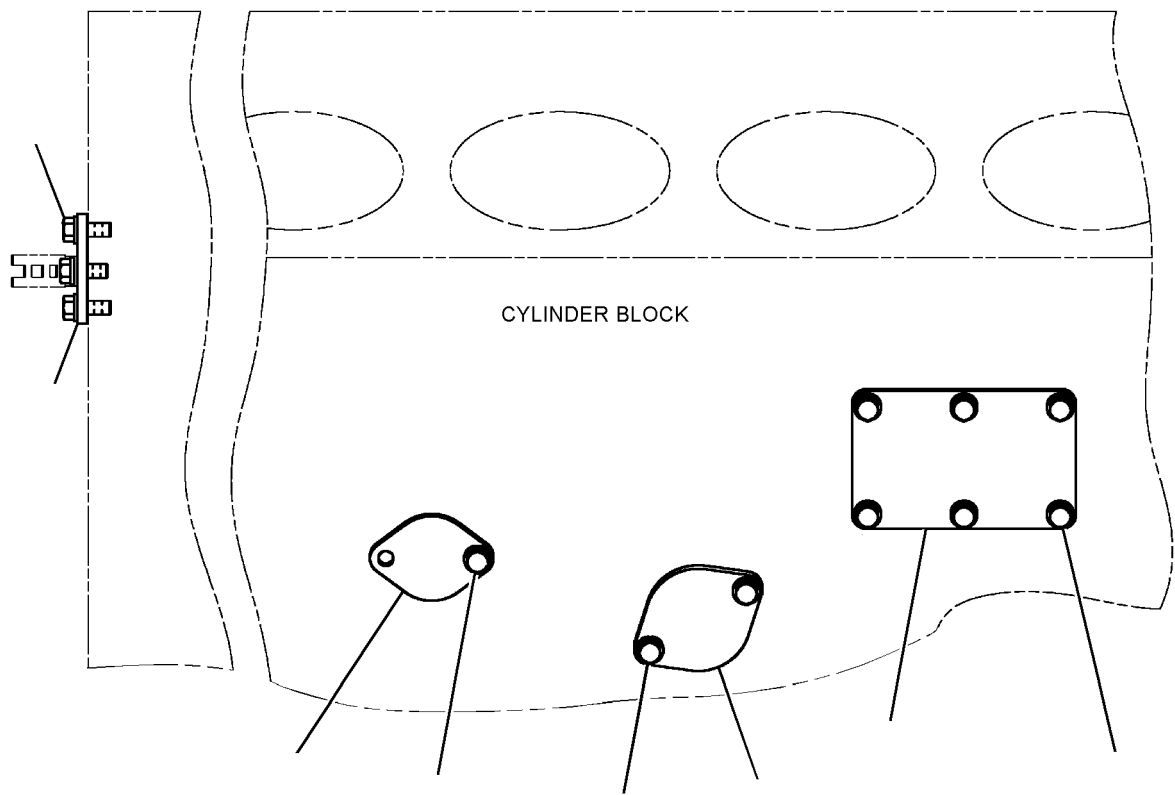
Ref.	Part number	Description	Qty	Code	Group page
1	4N-0342	PLATE	1		
2	0S-0509	BOLT (3/8-16X0.75-IN)	2		
3	108-6278	CAMSHAFT AS	1		
4	101-3374	GEAR (86-TEETH)	1		
5	1B-8705	KEY-WOODRUFF	1		

CAT codes: R.

128-5998 COVER GP-CYLINDER BLOCK

128-5998 COVER GP-CYLINDER BLOCK S/N 80M1-UP PART OF 122-1117 ENGINE AR

Drawing 1 of 1



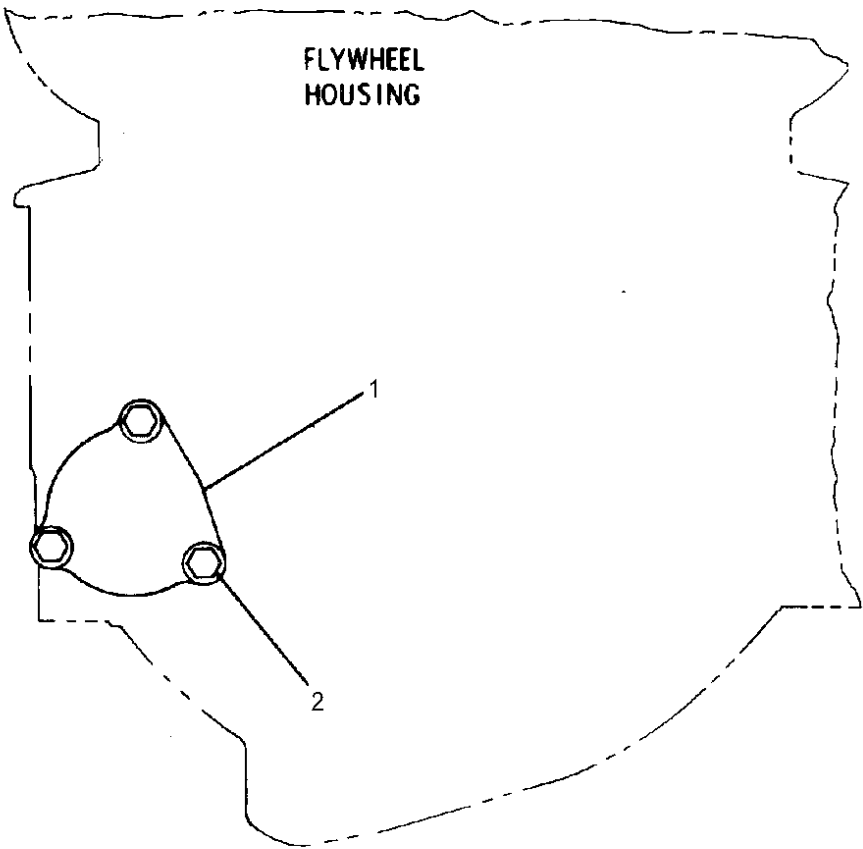
LEFT SIDE VIEW OF ENGINE

Ref.	Part number	Description	Qty	Code	Group page
1	4N-1683	COVER	1		
2	239-5571	SEAL-INTEGRAL	1		
3	0S-1594	BOLT (3/8-16X1-IN)	11		
4	5M-2894	WASHER-HARD (10.2X18.5X2.5-MM THK)	12		
5	2P-2772	COVER	1		
6	234-8937	SEAL-INTEGRAL	1		
7	4N-0794	COVER	1		
8	239-5572	SEAL-INTEGRAL	1		
9	4N-1682	COVER	1		
10	4N-0864	GASKET	1		
11	0L-1351	BOLT (3/8-16X0.875-IN)	1		

4N-6876 COVER GP-FLYWHEEL HOUSING

4N-6876 COVER GP-FLYWHEEL HOUSING S/N 80M1-UP PART OF 122-1117 ENGINE AR

Drawing 1 of 1

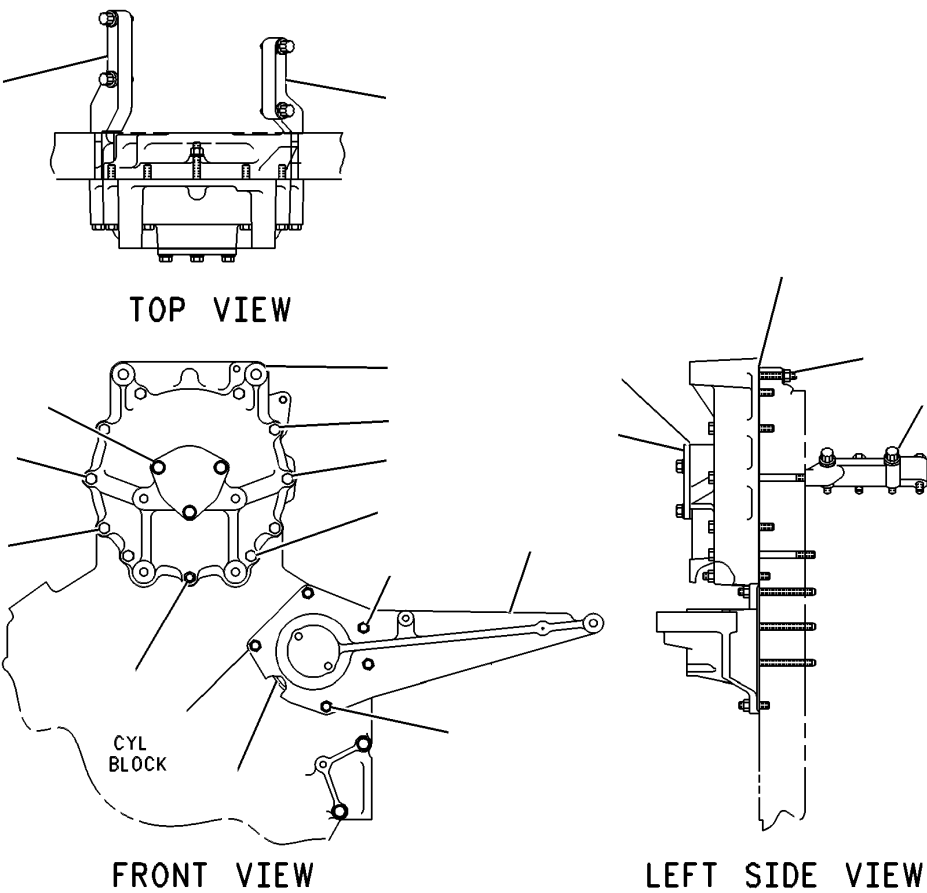


Ref.	Part number	Description	Qty	Code	Group page
1	4N-1114	COVER	1		
	9Y-6089	GASKET	1		
2	0S-1566	BOLT (5/8-11X1.5-IN)	3		
	5P-8247	WASHER-HARD (17X32X3.5-MM THK)	3		

122-1636 COVER GP-FRONT HOUSING

122-1636 COVER GP-FRONT HOUSING S/N 80M1-UP PART OF 122-1117 ENGINE AR

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	113-3174	BRACKET-COMPRESSOR	1		
2	9N-5576	COVER-FUEL PUMP GEAR	1		
3	6N-2509	COVER	1		
4	6N-2508	GASKET	1		
5	193-9155	GASKET	1		
6	9X-7371	SEAL-O-RING	1		
7	116-5821	SUPPORT-HOUSING (RH)	1		
8	116-6264	SUPPORT-HOUSING (LH)	1		
9	3S-1307	BOLT-12 POINT HEAD (3/8-16X2-IN)	4		
10	5F-4899	BOLT (3/8-16X5.5-IN)	4		
11	0L-1352	BOLT (3/8-16X3.25-IN)	6		
12	0S-1594	BOLT (3/8-16X1-IN)	3		
13	5M-2894	WASHER-HARD (10.2X18.5X2.5-MM THK)	4		
14	9S-8752	NUT-FULL (3/8-16-THD)	7		
15	3K-3256	STUD-TAPERLOCK (3/8-16X1.7-IN)	1		

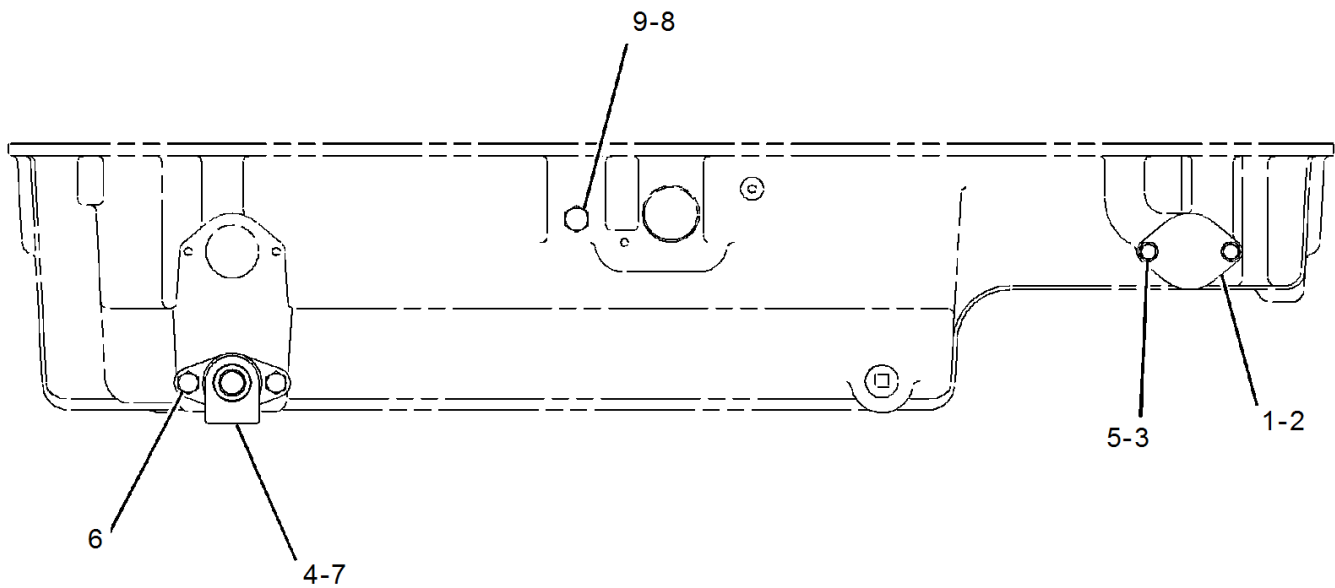
122-1636 COVER GP-FRONT HOUSING (continued)

Ref.	Part number	Description	Qty	Code	Group page
16	2P-1974	STUD-TAPERLOCK (3/8-16X4.2-IN)	3		
17	3B-4589	STUD	1		
18	3M-0496	STUD-TAPERLOCK (3/8-16X2.6-IN)	1		

6N-0198 COVER GP-OIL PAN -ENGINE OIL

6N-0198 COVER GP-OIL PAN -ENGINE OIL S/N 80M1-UP PART OF 122-1117 ENGINE AR

Drawing 1 of 1



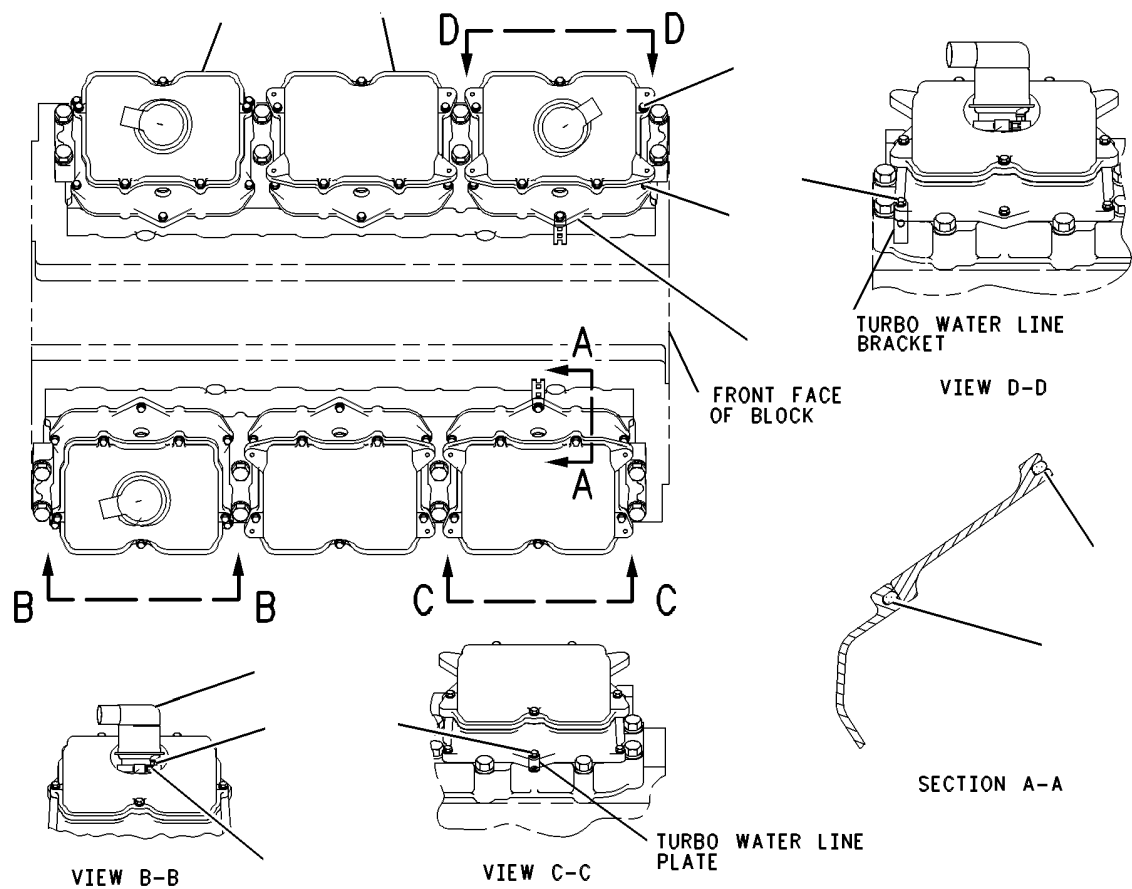
RIGHT SIDE VIEW

Ref.	Part number	Description	Qty	Code	Group page
1	4N-0794	COVER	1		
2	239-5572	SEAL-INTEGRAL	1		
3	0S-1588	BOLT (3/8-16X1.25-IN)	2		
4	4P-0519	ADAPTER AS-DRAIN	1		
	109-5839	PLUG-DRAIN (ENGINE)	1		
	109-5840	ADAPTER-PLUG	1		
5	5M-2894	WASHER-HARD (10.2X18.5X2.5-MM THK)	2		
6	0S-1587	BOLT (1/2-13X1.75-IN)	2		
7	379-5053	SEAL-O-RING	1		
8	8L-2786	SEAL-O-RING	1		
9	9S-4185	PLUG (3/4-16-THD)	1		

109-2335 COVER GP-VALVE MECHANISM

109-2335 COVER GP-VALVE MECHANISM S/N 80M1-860 PART OF 122-1117 ENGINE AR

Drawing 1 of 1

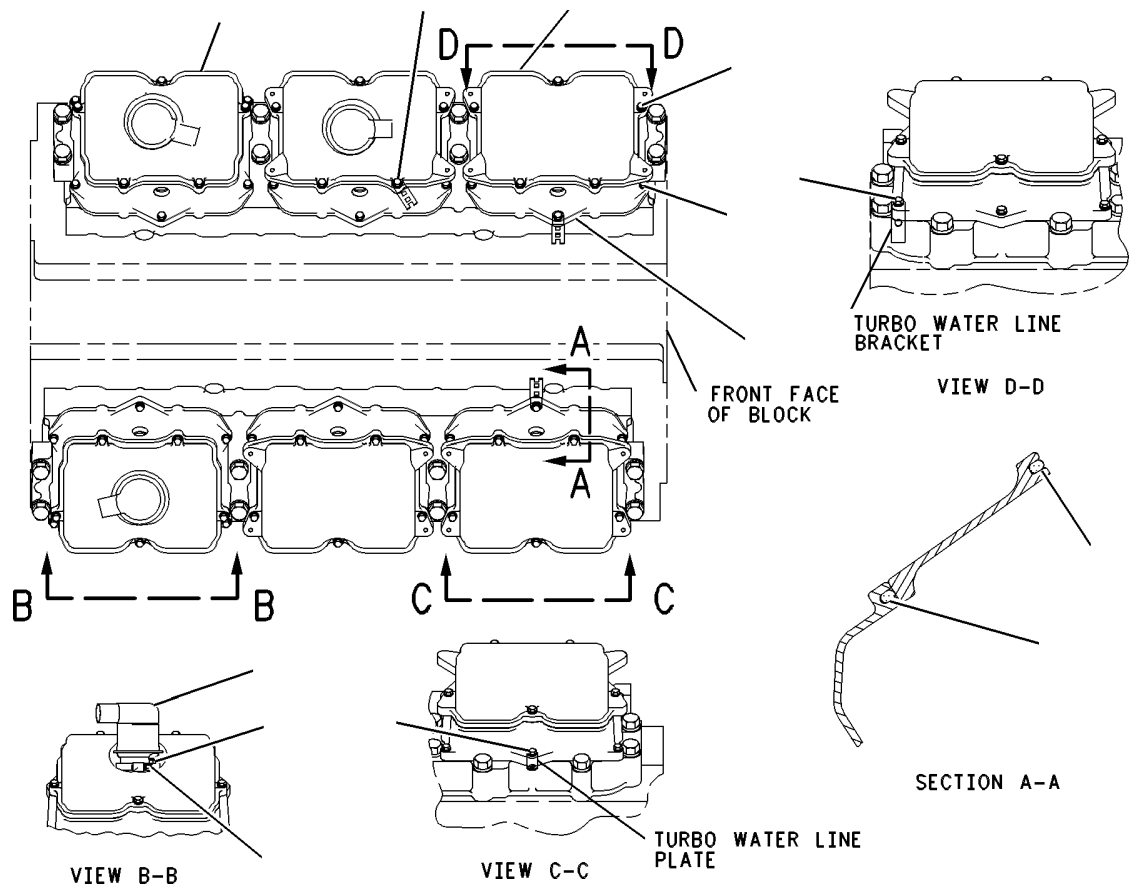


Ref.	Part number	Description	Qty	Code	Group page
1	114-8684	COVER-VALVE MECHANISM	3		
2	119-9015	COVER AS-VALVE	3		
(EACH INCLUDES)					
	7C-6514	ADAPTER	1		
	272-2583	SEAL-O-RING	1		
3	1B-2790	BOLT (5/16-18X1.375-IN)	64		
4	9M-1974	WASHER-HARD (8.8X16X2-MM THK)	66		
5	106-9488	BASE-VALVE MECHANISM COVER	6		
6	230-0940	SEAL-VALVE COVER	12		
7	4N-4668	BREATHER AS (CRANKCASE)	3		
8	6V-3831	SEAL-O-RING	3		
9	2N-8109	CLAMP	3		
10	1A-9579	BOLT (5/16-18X1.5-IN)	2		

139-4615 COVER GP-VALVE MECHANISM

139-4615 COVER GP-VALVE MECHANISM S/N 80M861-UP PART OF 122-1117 ENGINE AR

Drawing 1 of 1

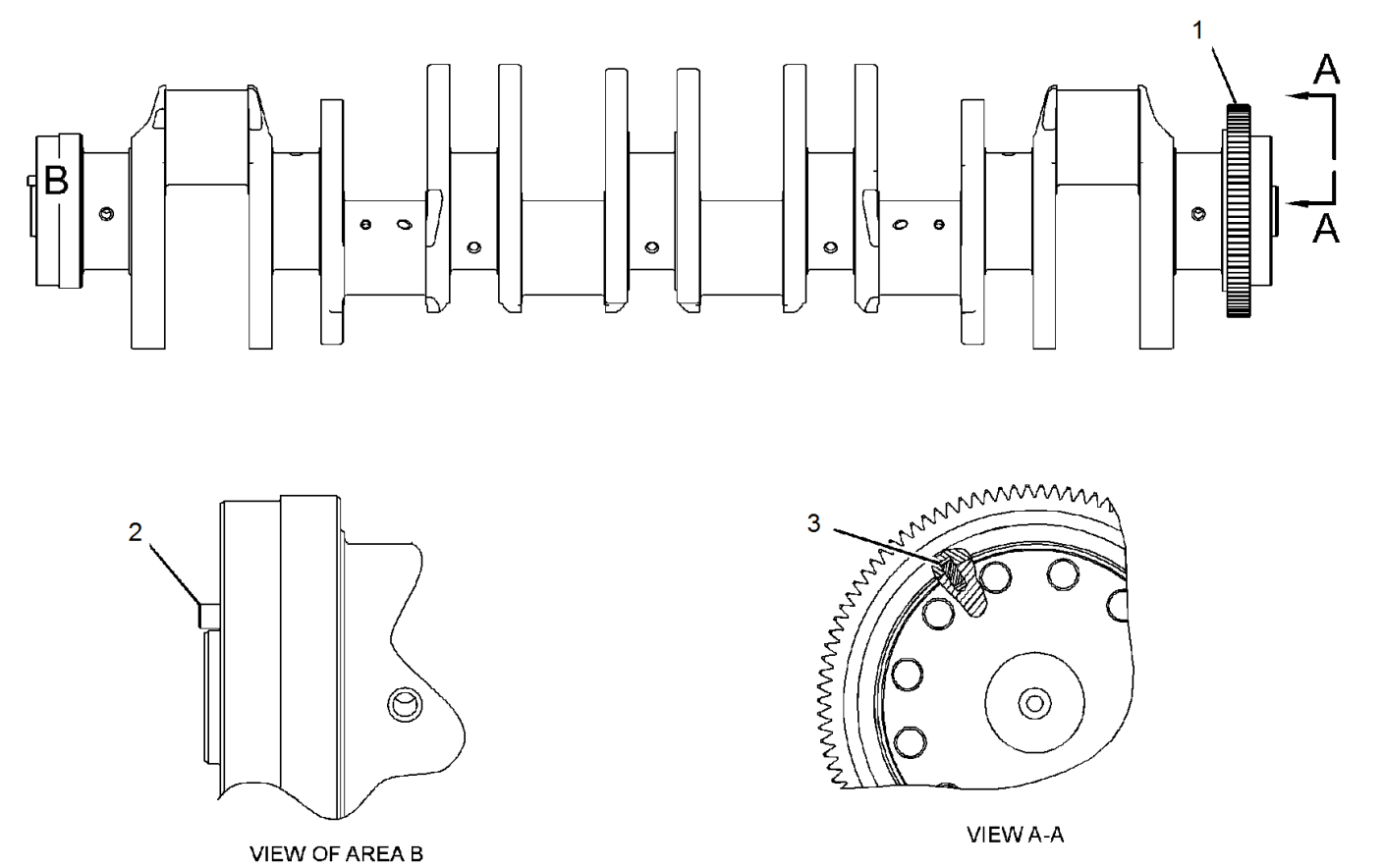


Ref.	Part number	Description	Qty	Code	Group page
1	114-8684	COVER-VALVE MECHANISM	3		
2	119-9015	COVER AS-VALVE	3		
(EACH INCLUDES)					
	272-2583	SEAL-O-RING	1		
	7C-6514	ADAPTER	1		
3	1B-2790	BOLT (5/16-18X1.375-IN)	63		
4	9M-1974	WASHER-HARD (8.8X16X2-MM THK)	66		
5	106-9488	BASE-VALVE MECHANISM COVER	6		
6	230-0940	SEAL-VALVE COVER	12		
7	4N-4668	BREATHER AS (CRANKCASE)	3		
8	6V-3831	SEAL-O-RING	3		
9	2N-8109	CLAMP	3		
10	1A-9579	BOLT (5/16-18X1.5-IN)	3		

384-9906 CRANKSHAFT AS

384-9906 CRANKSHAFT AS S/N 80M8056-UP PART OF 4N-0922 CRANKSHAFT GP

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	151-2940	GEAR-CRANKSHAFT (99-TEETH)	1		
2	4N-0684	DOWEL	1		
3	7S-5005	DOWEL	1		

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