

CATERPILLAR WE-851B

8BC / SEBP1566

Contents

Section	Page
Basic engine	2
Basic engine	

7C-1201 CYLINDER BLOCK GP

7C1201 CYLINDER BLOCK GP 7W4725-PAGE 2.01

Drawing 1 of 1

- I. THIS CHART COVERS THE DESIGN AND BILL OF MATERIAL APPLICABLE FOR A TRANSFER SWITCH PACKAGE RATED 100 THROUGH 2000 AMPERES, 50 OR 60 HERTZ, AND UP TO AND INCLUDING 600 VOLTS AC.
- II. SELECTION OF A MODEL NUMBER FOR A TRANSFER SWITCH:
- TRANSFER SWITCHES SELECTED UNDER THIS CHART ARE TO BE ORDERED BY A ELEVEN CHARACTER MODEL NUMBER (EXAMPLE TA43 BGNG XXI). FOR A MANUAL TRANSFER SWITCH ALL ELEVEN CHARACTERS OF THE MODEL NUMBER ARE OBTAINED FROM TABLE 1A; FOR A SINGLE GENERATOR MANUAL TRANSFER SWITCH ALL ELEVEN CHARACTERS OF THE MODEL NUMBER ARE OBTAINED FROM TABLE 1B; FOR A DUAL GENERATOR MANUAL TRANSFER SWITCH ALL ELEVEN CHARACTERS OF THE MODEL NUMBER ARE OBTAINED FROM TABLE 1C; FOR AN AUTOMATIC TRANSFER SWITCH THE FIRST FOUR CHARACTERS ARE OBTAINED FROM TABLE 1D; FOR A SINGLE GENERATOR AUTOMATIC TRANSFER SWITCH THE FIRST FOUR CHARACTERS ARE OBTAINED FROM TABLE 1E; AND FOR A DUAL GENERATOR AUTOMATIC TRANSFER SWITCH THE FIRST FOUR CHARACTERS ARE OBTAINED FROM TABLE 1F. FOR CONSISTS AND FUNCTIONS OF MANUAL, SINGLE GENERATOR MANUAL, DUAL GENERATOR MANUAL, AUTOMATIC, SINGLE GENERATOR AUTOMATIC AND DUAL GENERATOR AUTOMATIC REFER TO TABLES 1A, 1B, 1C, 1D, 1E, AND 1F.
1. A 'T' AS THE FIRST CHARACTER OF THE MODEL NUMBER SPECIFIES A TRANSFER SWITCH.
 2. THE SECOND CHARACTER OF THE MODEL NUMBER SPECIFIES THE TYPE OF TRANSFER SWITCH OPERATION AND APPLICATION. (M) MANUAL OPERATION - NO INTELLIGENCE LOGIC OR AUTOMATIC CONTROLS PROVIDED; (P) SINGLE GENERATOR MANUAL OPERATION - NO INTELLIGENCE OR AUTOMATIC CONTROLS PROVIDED (FOR USE WHEN TRANSFER SWITCH EMERGENCY SIDE CIRCUIT BREAKER FURNISHED WITH THERMO-MAGNETIC TRIP ELEMENT FOR GENERATOR OVERCURRENT AND SHORT CIRCUIT PROTECTION); (N) DUAL GENERATOR MANUAL OPERATION - NO INTELLIGENCE OR AUTOMATIC CONTROLS PROVIDED FOR USE WHEN TRANSFER SWITCH EMERGENCY AND NORMAL SOURCE CIRCUIT BREAKERS FURNISHED WITH THERMO-MAGNETIC TRIP ELEMENTS (FOR GENERATOR OVERCURRENT AND SHORT CIRCUIT PROTECTION WHEN BOTH POWER SOURCES ARE GENERATORS). (A) AUTOMATIC OPERATION - CONTROL AND LOGIC PROVIDED TO AUTOMATICALLY TRANSFER POWER FROM NORMAL TO EMERGENCY SOURCE AND FROM EMERGENCY TO NORMAL SOURCE; (S) SINGLE GENERATOR AUTOMATIC OPERATION (FOR USE WHEN TRANSFER SWITCH EMERGENCY SIDE CIRCUIT BREAKER FURNISHED WITH THERMO-MAGNETIC TRIP ELEMENT FOR GENERATOR OVERCURRENT AND SHORT CIRCUIT PROTECTION) - CONTROLS AND LOGIC PROVIDED TO AUTOMATICALLY TRANSFER POWER FROM NORMAL TO EMERGENCY SOURCE AND FROM EMERGENCY TO NORMAL SOURCE; (D) DUAL GENERATOR AUTOMATIC OPERATION (FOR USE WHEN TRANSFER SWITCH EMERGENCY AND NORMAL SOURCE CIRCUIT BREAKERS FURNISHED WITH THERMO-MAGNETIC TRIP ELEMENTS FOR GENERATOR OVERCURRENT AND SHORT CIRCUIT PROTECTION WHEN BOTH POWER SOURCES ARE GENERATORS) - CONTROLS AND LOGIC PROVIDED TO AUTOMATICALLY TRANSFER POWER FROM NORMAL TO EMERGENCY SOURCE AND FROM EMERGENCY TO NORMAL SOURCE.
 3. THE THIRD CHARACTER OF THE MODEL NUMBER SPECIFIES THE POWER SWITCHING MODULE, NEUTRAL ASSEMBLY, INTELLIGENCE PANEL AND TRANSFER SWITCH LAYOUT DRAWING ASSOCIATED WITH APPLICABLE TRANSFER SWITCH RATING AND CONFIGURATION.
 4. THE FOURTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE TRANSFER SWITCH ENCLOSURE SIZE.
 5. THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE SYSTEM VOLTAGE RATING. (A) 600 VOLTS; (B) 480 VOLTS, (C) 400 VOLTS; (D) 240 VOLTS, (E) 208 VOLTS.
 6. THE SIXTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE SYSTEM FREQUENCY. (5) 50 HERTZ; (6) 60 HERTZ.
 7. THE SEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES AN AUXILIARY RELAY WITH CONTACTS WIRED OUT TO TERMINAL POINTS, IF REQUIRED. (X) NOT REQUIRED; (N) NORMAL SOURCE SIDE ONLY; (E) EMERGENCY SOURCE SIDE ONLY; (B) BOTH NORMAL AND EMERGENCY SOURCE SIDES.
 8. THE EIGHTH CHARACTER OF THE MODEL NUMBER SPECIFIES AN AUTOMATIC PLANT EXERCISE TIMER, IF REQUIRED. (X) NOT REQUIRED; (E) EXERCISES GENERATOR SET ONLY; (T) EXERCISES GENERATOR SET AND TRANSFER SWITCH.
 9. THE NINTH CHARACTER OF THE MODEL NUMBER SPECIFIES A TWO-POSITION SELECTOR SWITCH TO ALLOW SELECTION OF EITHER THE NORMAL OR EMERGENCY POWER SOURCE AS THE PREFERRED SOURCE. (X) NOT REQUIRED; (S) REQUIRED.
 10. THE TENTH CHARACTER OF THE MODEL NUMBER SPECIFIES AN ADJUSTABLE TIME DELAY FOR ENGINE COOL-OFF, IF REQUIRED. (X) NOT REQUIRED; (T) ENGINE COOL-OFF TIMER.
 11. THE ELEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE CHANGE NUMBER OF THE CHART TO WHICH THE TRANSFER SWITCH WAS BUILT.

CHARACTER →	1	2	3	4	5	6	7	8	9	10	11
MODEL NUMBER →	T	A	4	3	B	6	N	G	X	X	I
DESIGNATION →											

Ref.	Part number	Description	Qty	Code	Group page
1	7W-4609	GASKET-CYLINDER HEAD	1		
2	067-6804	PLUG	1		
3	067-6808	PLUG	3		
4	5H-8985	PIN-SPRING	6		
5	5M-6213	PLUG (PIPE)	2		

7C-1201 CYLINDER BLOCK GP (continued)

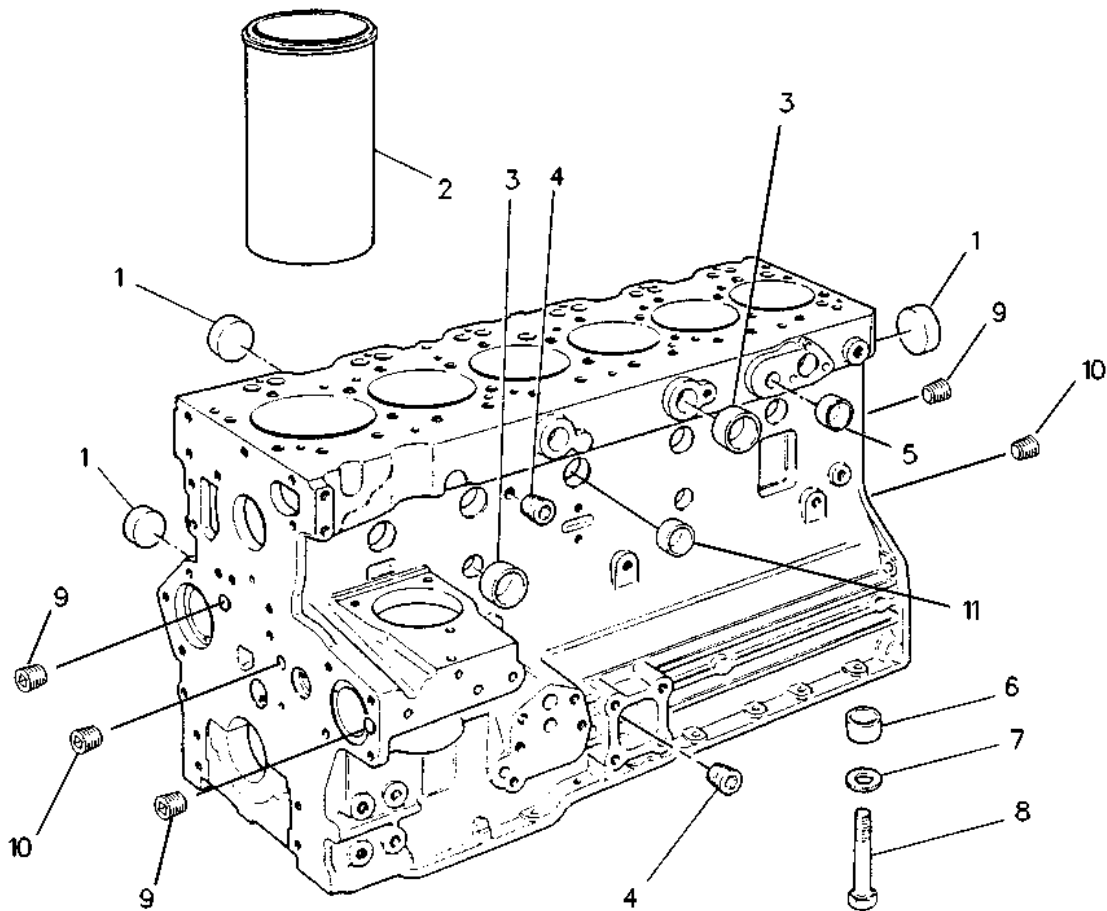
Ref.	Part number	Description	Qty	Code	Group page
6	067-6803	PLUG	1		
7	9M-1974	WASHER-HARD	12		
8	2H-3738	BOLT	12		
9	6D-0044	DOWEL	2		
10	5P-6900	BOLT-12 POINT HEAD	2		
11	5G-2985	SPACER	2		
12	112-5540	HOUSING AS	1		
13	4W-5360	SEAL-CRANKSHAFT	1		
14	112-5541	GASKET	1		
15	7W-2637	STUD	2		
16	7W-4584	BRIDGE	1		
17	067-6035	GASKET	4		
18	067-6816	BOLT	4		
19	067-6817	WASHER	4		
20	032-9103	STUD	2		
21	9F-2247	PLUG	1		
22	7W-4585	PLUG	1		
23	113-0679	BRIDGE	1		
24	033-7831	STUD	2		
25	067-9505	PLUG-PRESSURE RAIL	2		
26	7C-1286	TUBE AS	1		
27	7C-1252	SEAL	2		
28	7W-4725	CYLINDER BLOCK AS	1	Y	
29	067-6043	PLUG-SIDE	1		
30	032-8298	PLUG	6		
31	067-9541	TUBE-OIL SPRAY	1		
32	032-9100	PLUG	1		
33	7W-4724	WASHER-SEAL	1		
34	7W-4741	BOLT-BANJO	6		
35	5M-2894	WASHER	6		
36	7W-4739	JET AS-PISTON COOLING	6		

CAT codes: Y.

7W-4725 CYLINDER BLOCK AS

7W4725 CYLINDER BLOCK AS PART OF 7C1201 CYLINDER BLOCK

Drawing 1 of 1

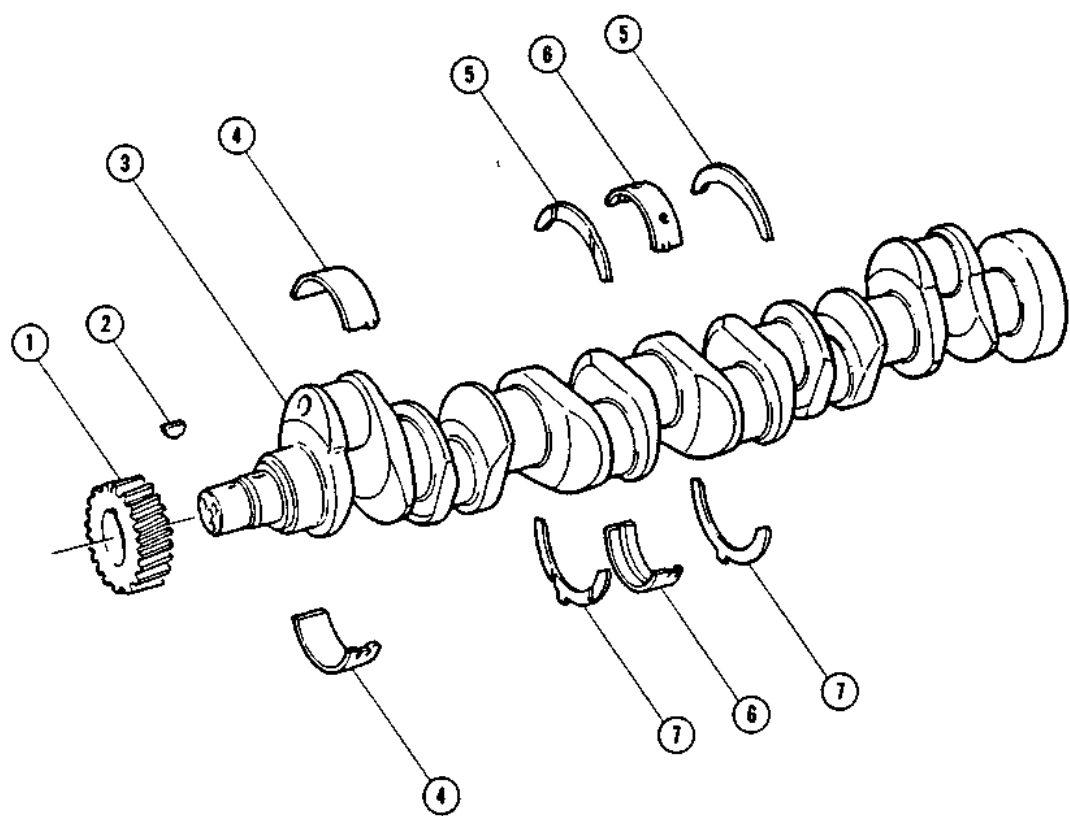


Ref.	Part number	Description	Qty	Code	Group page
1	032-8298	PLUG	8		
2	1W-8311	LINER-CYLINDER BLOCK	6		
3	067-6043	PLUG-SIDE	4		
4	7M-7410	PLUG	2		
5	032-8061	PLUG	1		
6	067-6002	DOWEL	14		
7	7W-4587	WASHER	14		
8	035-8068	BOLT	14		
9	067-9504	PLUG-PRESSURE RAIL	3		
10	067-6010	PLUG-LUBE OIL	2		
11	7W-4549	PLUG	5		

7W-4702 CRANKSHAFT GP

7W4702 CRANKSHAFT GP ENGINE S/N U758682N & BELOW

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	067-6134	GEAR-CRANKSHAFT	1		
2	1B-8736	KEY-WOODRUFF	1		
3	7W-4811	CRANKSHAFT GP (BASIC)	1		
4	7W-4816	BEARING SET-ROD	1		
	7W-4817	BEARING SET (CONNECTING ROD)	1	A	
.25MM(.010IN.) UNDERSIZE					
	7W-4818	BEARING SET (CONNECTING ROD)	1	A	
.51MM(.020IN.) UNDERSIZE					
	7W-4819	BEARING SET (CONNECTING ROD)		A	
.76MM(.030IN.) UNDERSIZE					
5	032-9090	WASHER-THRUST	2		
	067-6873	WASHER-THRUST (UPPER)	1	A	

7W-4702 CRANKSHAFT GP (continued)

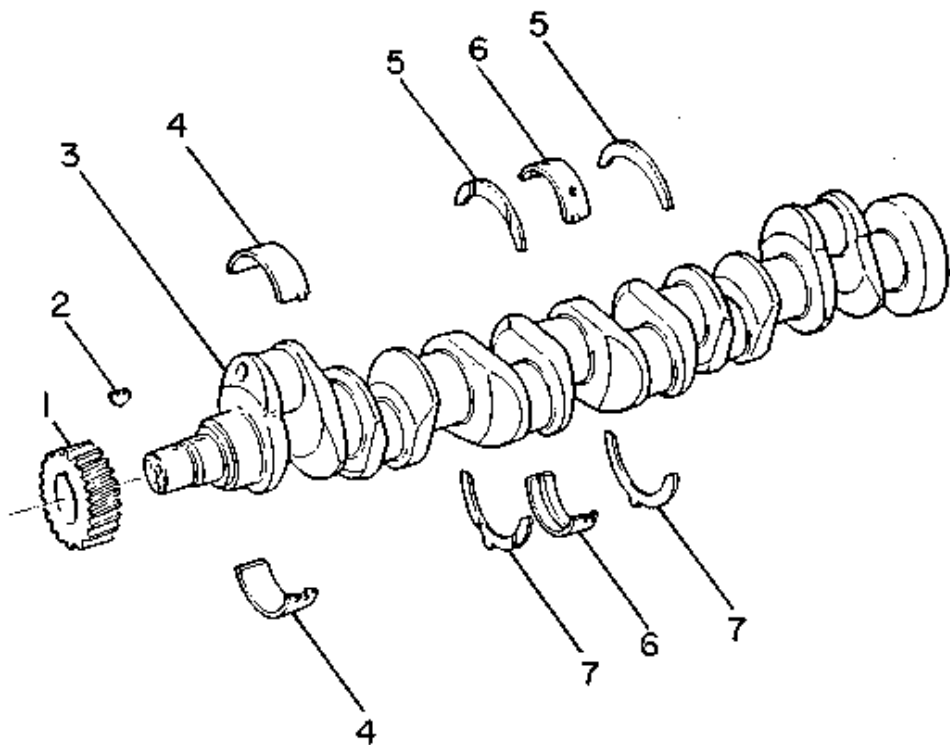
Ref.	Part number	Description	Qty.	Code	Group page
.18MM(.007IN.)					
OVERSIZE					
6	7W-4589	BEARING SET-MAIN	1		
	7W-4590	BEARING SET (MAIN)	1	A	
.25MM(.010IN.)					
UNDERSIZE					
	7W-4591	BEARING SET (MAIN)	1	A	
.51MM(.020IN.)					
UNDERSIZE					
	7W-4592	BEARING SET (MAIN)	1	A	
.76MM(.030IN.)					
UNDERSIZE					
7	032-9091	WASHER-THRUST	2		
	067-6874	WASHER-THRUST (LOWER)	1	A	
.18MM(.007IN.)					
OVERSIZE					

CAT codes: A.

7C-8944 CRANKSHAFT GP

7C8944 CRANKSHAFT GP ENGINE S/N U758683N-UP

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	7C-8947	GEAR-CRANKSHAFT	1		
2	1B-8736	KEY-WOODRUFF	1		
3	7C-8949	CRANKSHAFT GP	1		
4	7W-4816	BEARING SET-ROD (STANDARD)	1	J	
	7W-4817	BEARING SET (.25MM)US	1	AJ	
	7W-4818	BEARING SET (.51MM)US	1	AJ	
	7W-4819	BEARING SET (.76MM)US	1	AJ	
5	032-9090	WASHER-THRUST (UPPER)	2		
	067-6873	WASHER-THRUST (.007IN)OS	2	A	
6	7W-4589	BEARING SET-MAIN (STANDARD)	1	J	
	7W-4590	BEARING SET (.25MM)US	1	AJ	
	7W-4591	BEARING SET (.51MM)US	1	AJ	
	7W-4592	BEARING SET (.76MM)US	1	AJ	
7	032-9091	WASHER-THRUST (LOWER)	2		
	067-6874	WASHER-THRUST (.007IN)OS	2	A	

7C-8944 CRANKSHAFT GP (continued)

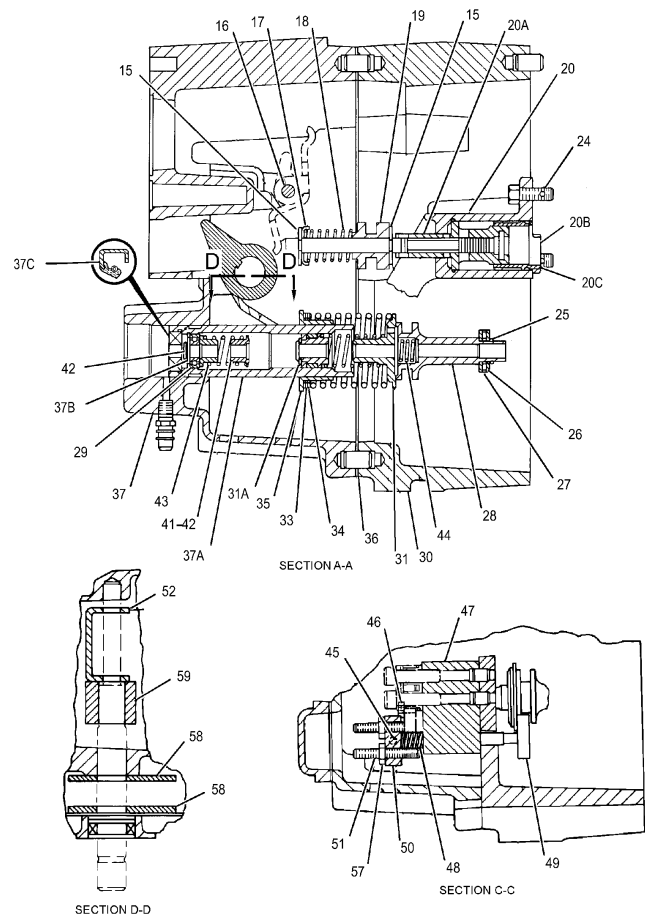
Ref.	Part number	Description	Qty.	Code	Group page
		J- INCLUDES A COMPLETE SET OF BEARINGS FOR ONE CRANKSHAFT			

CAT codes: A.

7C-1202 PULLEY GP-CRANKSHAFT

7C1202 PULLEY GP-CRANKSHAFT

Drawing 1 of 1

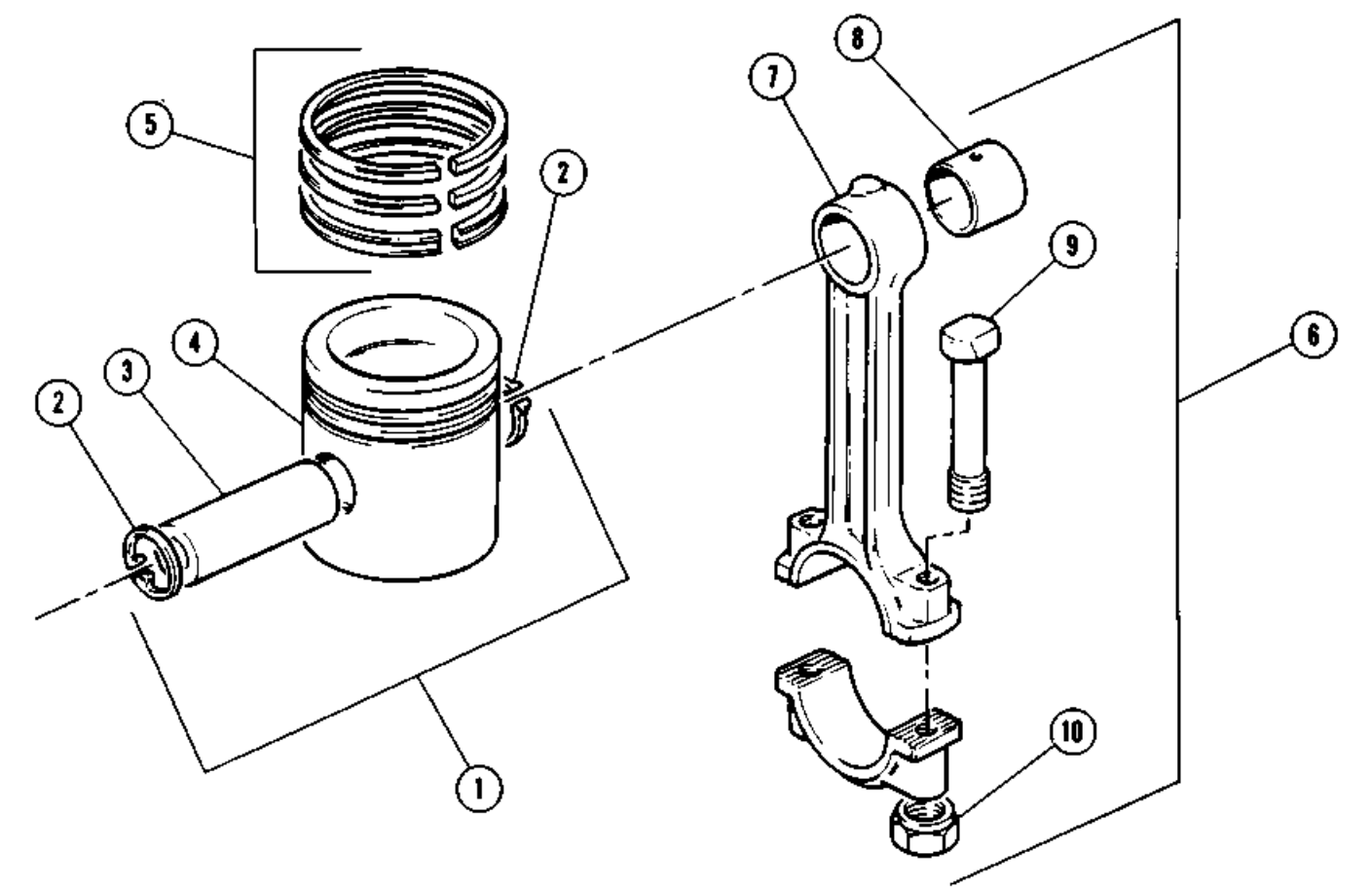


Ref.	Part number	Description	Qty	Code	Group page
1	7W-4634	BOLT	3		
2	032-9882	SEAL-O-RING	1		
3	7W-4635	BLOCK-THRUST	1		
4	7W-4632	LOCK-SPLIT	1		
5	7W-4633	SPACER	1		
6	7C-1221	PULLEY	1		
7	7F-7254	KEY-WOODRUFF	1		

7W-4703 PISTON & ROD GP

7W4703 ROD & PISTON GP

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	7W-4743	PISTON AS	6		
(EACH INCLUDES)					
2	7W-2530	RING-SNAP	2		
3	NONE	PIN	1	Z	
4	NONE	PISTON	1	Z	
5	7W-4742	RING SET	6		
6	7W-2514	ROD AS-CONNECTION	6		
(EACH INCLUDES)					
7	NONE	ROD AND CAP	1	Z	
8	7W-2510	BUSHING-CONNECTION ROD	1		
9	067-6883	BOLT-ROD CAP	2		
10	7W-2505	NUT-CONNECTION ROD	2		

CAT codes: Z.

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