

CATERPILLAR 307B

5CW / XEBP7738

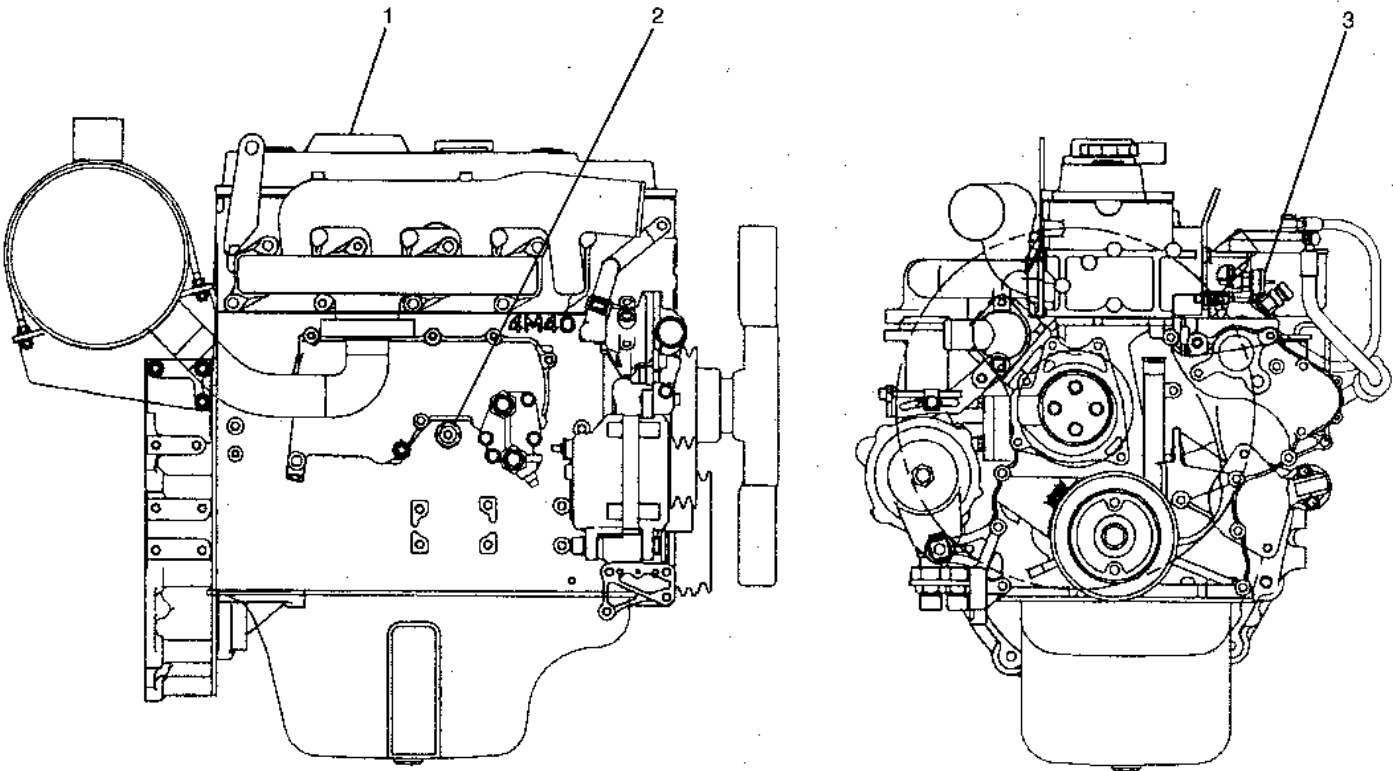
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162-6158 ENGINE ARRANGEMENT

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Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	162-6159	ENGINE ARRANGEMENT	1	Y	
2	5I-6587	SWITCH ASSEM. (PRESSURE)	1		
3	085-5121	SWITCH (TEMPERATURE)	1		

CAT codes: Y.

162-6159 ENGINE ARRANGEMENT

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Arrangement composition. Follow the table links to the component drawings.

Ref.	Part number	Description	Qty	Code	Group page
	139-7769	CYLINDER BLOCK GROUP	1		7
	139-7771	CRANKSHAFT GROUP	1		
	139-7774	CONNECTING ROD AND PISTON GROUP	1		
	139-7772	CAMSHAFT GROUP	1		10
	139-7768	BALANCER GROUP	1		
	139-7767	CYLINDER HEAD GROUP	1		5
	139-7770	VALVE MECHANISM COVER GROUP	1		
	139-7775	FRONT HOUSING GROUP	1		
	139-7776	FRONT GEAR GROUP	1		
	162-6170	PULLEY GROUP	1		
	139-7778	FLYWHEEL HOUSING GROUP	1		
	139-7777	FLYWHEEL GROUP	1		
	147-7147	OIL PAN GROUP	1		
	139-7783	ENGINE OIL PUMP GROUP	1		
	147-7148	ENGINE OIL LINES GROUP	1		
	151-6627	BREATHER GROUP	1		

162-6159 ENGINE ARRANGEMENT

1626159 ENGINE ARRANGEMENT-PART 2 OF 2 PART OF 1626158-Page 7

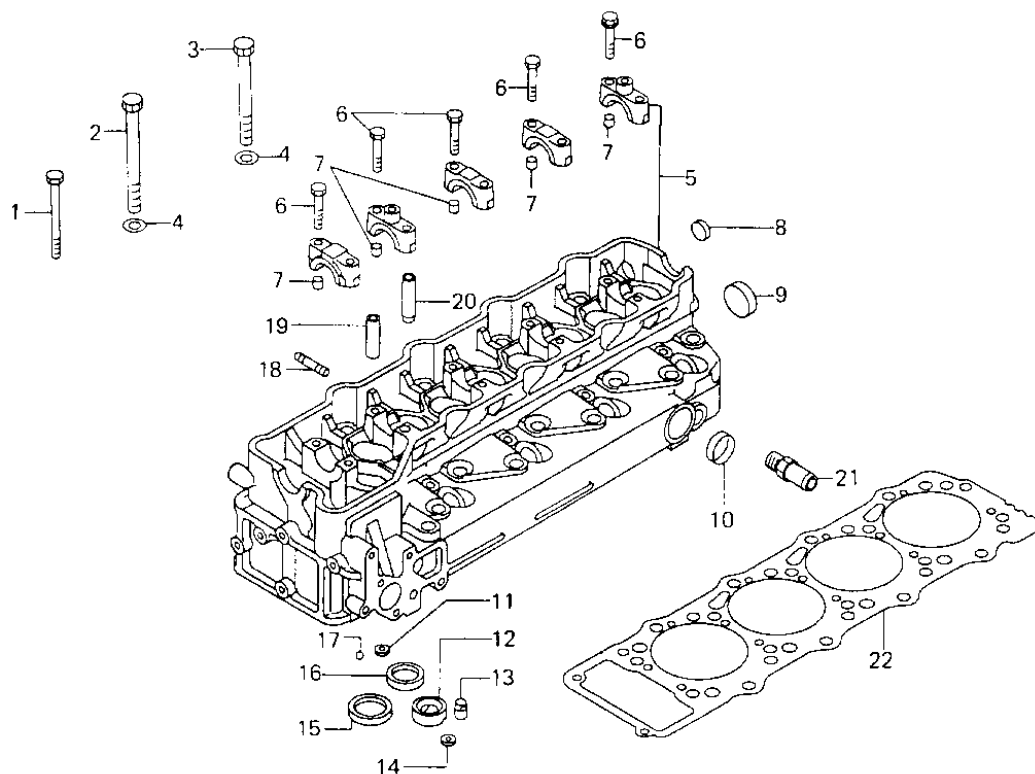
Arrangement composition. Follow the table links to the component drawings.

Ref.	Part number	Description	Qty	Code	Group page
	139-7785	WATER PUMP GROUP	1		
	139-7786	WATER LINES GROUP	1		
	147-7149	ENGINE OIL COOLER GROUP	1		
	139-7787	SUCTION FAN GROUP	1		
	139-7789	INLET MANIFOLD GROUP	1		
	139-7790	EXHAUST MANIFOLD GROUP	1		
	162-6173	MUFFLER GROUP	1		
	151-6600	FUEL INJECTION PUMP GROUP	1		
	147-7150	FUEL FILTER GROUP	1		
	147-7151	FUEL LINES GROUP	1		
	151-6586	INJECTOR NOZZLE GROUP	4		
	147-7153	ELECTRIC STARTING MOTOR GROUP	1		
	162-6171	CHARGING ALTERNATOR GROUP	1		

139-7767 CYLINDER HEAD

CYLINDER HEAD (1397767 N/S) PART OF 1626159-Page 8

Drawing 1 of 1



NOTE	No.	PART No.	QTY	PART NAME	NOTE	No.	PART No.	QTY	PART NAME
	1	139-7961	2	BOLT (L=90mm)		17	139-8128	4	BALL
	2	139-7929	4	BOLT (L=125mm)		18	139-7881	8	STUD (L=43mm)
	3	139-7928	14	BOLT (L=105mm)		19	139-7879	4	GUIDE
	4	139-7809	18	WASHER	A		139-7977	4	GUIDE (OS=0.05mm)
	5	148-1819	1	HEAD AS	A		139-7978	4	GUIDE (OS=0.25mm)
	6	096-8489	10	BOLT (L=40mm)	A		139-7979	4	GUIDE (OS=0.50mm)
	7	139-7805	10	BUSHING	20		139-7880	4	GUIDE
	8	094-9862	1	CAP	A		139-7980	4	GUIDE (OS=0.05mm)
	9	094-9866	1	CAP	A		139-7981	4	GUIDE (OS=0.25mm)
	10	135-8447	1	CAP	A		139-7982	4	GUIDE (OS=0.50mm)
	11	139-7939	3	CAP	21		139-7808	1	JOINT
	12	139-7959	4	JET	22		139-7955	1	GASKET (A)
	13	148-1820	4	CAP	A		139-7956	1	GASKET (B)
	14	139-7941	4	CAP	A		139-7957	1	GASKET (C)
	15	139-7885	4	SHEET (STANDARD)	A		139-7958	1	GASKET (D)
A		139-7971	4	SHEET (OS=0.30mm)					
A		139-7972	4	SHEET (OS=0.60mm)					
16		139-7950	4	SHEET (STANDARD)					
A		139-7973	4	SHEET (OS=0.30mm)					
A		139-7974	4	SHEET (OS=0.60mm)					

A - NOT PART OF THIS GROUP

H56903E

Ref.	Part number	Description	Qty	Code	Group page
1	139-7961	BOLT (L=90mm)	2		
2	139-7929	BOLT (L=125mm)	4		
3	139-7928	BOLT (L=105mm)	14		
4	139-7809	WASHER	18		
5	148-1819	HEAD AS	1		

139-7767 CYLINDER HEAD (continued)

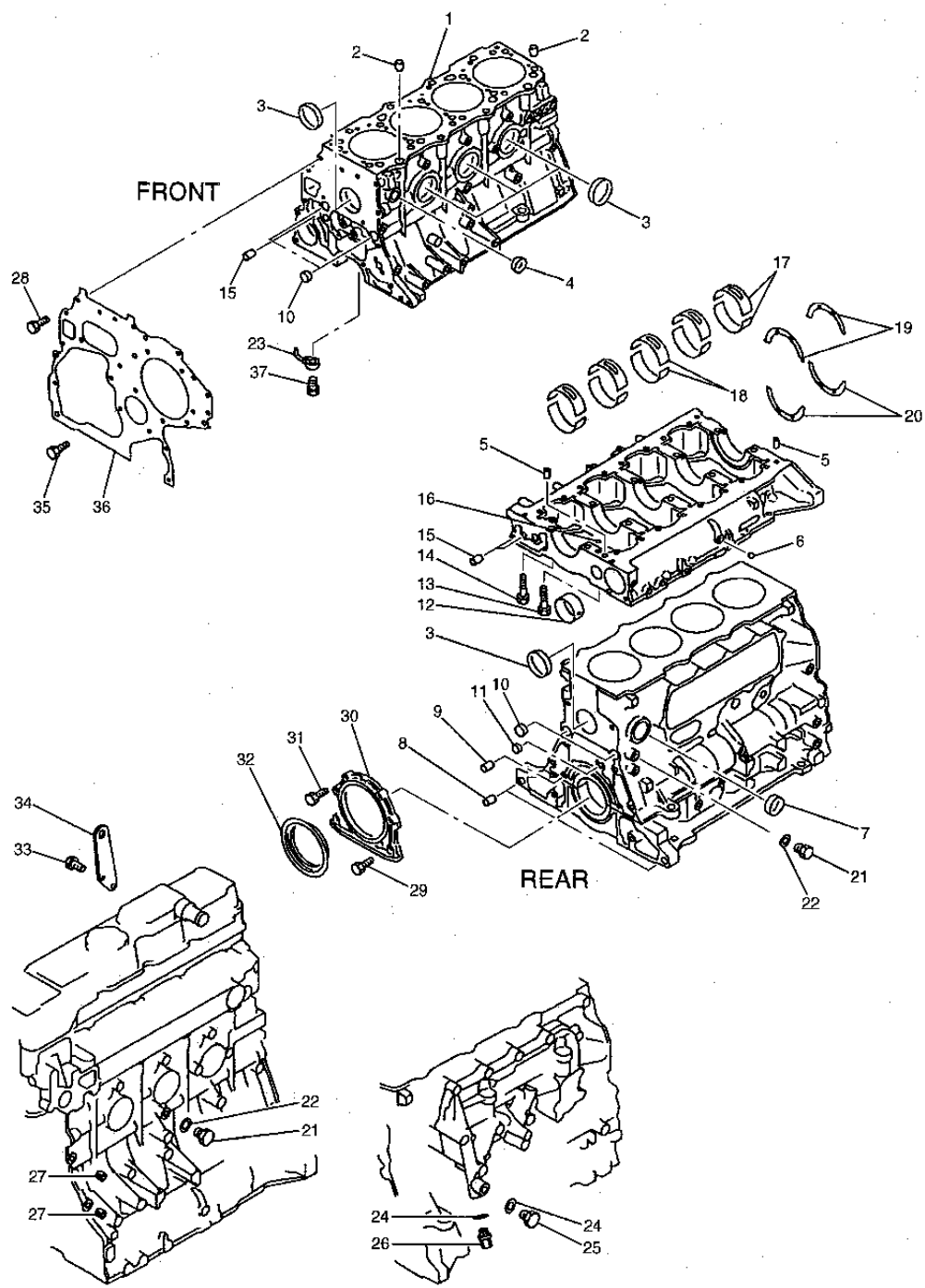
Ref.	Part number	Description	Qty	Code	Group page
6	096-8489	BOLT (L=40mm)	10		
7	139-7805	BUSHING	10		
8	094-9862	CAP	1		
9	094-9866	CAP	1		
10	135-8447	CAP	1		
11	139-7939	CAP	3		
12	139-7959	JET	4		
13	148-1820	CAP	4		
14	139-7941	CAP	4		
15	139-7885	SHEET (STANDARD)	4		
	139-7971	SHEET (OS=0.30mm)	4	A	
	139-7972	SHEET (OS=0.60mm)	4	A	
16	139-7950	SHEET (STANDARD)	4		
	139-7973	SHEET (OS=0.30mm)	4	A	
	139-7974	SHEET (OS=0.60mm)	4	A	
17	139-8128	BALL	4		
18	139-7881	STUD (L=43mm)	8		
19	139-7879	GUIDE	4		
	139-7977	GUIDE (OS=0.05mm)	4	A	
	139-7978	GUIDE (OS=0.25mm)	4	A	
	139-7979	GUIDE (OS=0.50mm)	4	A	
20	139-7880	GUIDE	4		
	139-7980	GUIDE (OS=0.05mm)	4	A	
	139-7981	GUIDE (OS=0.25mm)	4	A	
	139-7982	GUIDE (OS=0.50mm)	4	A	
21	139-7808	JOINT	1		
22	139-7955	GASKET (A)	1		
	139-7956	GASKET (B)	1	A	
	139-7957	GASKET (C)	1	A	
	139-7958	GASKET (D)	1	A	

CAT codes: A.

139-7769 CYLINDER BLOCK

CYLINDER BLOCK (1397769 N/S) PART OF 1626159-Page 8

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	139-7963	BLOCK AS	1		
2	139-8142	BUSHING	2		
3	139-8137	CAP	5		
4	094-9865	CAP	1		
5	094-9347	PIN	2		

139-7769 CYLINDER BLOCK (continued)

Ref.	Part number	Description	Qty	Code	Group page
6	139-8128	BALL	3		
7	094-9867	CAP	1		
8	139-7807	BUSHING	2		
9	139-8141	BUSHING	4		
10	094-9862	CAP	4		
11	139-8145	CAP	1		
12	139-8039	BEARING	2		
13	096-8533	BOLT (L=65mm)	16		
14	139-8027	BOLT (L=89mm)	10		
15	094-9811	BUSHING	3		
16	095-4320	SEAL	2		
17	139-8079	BEARING SET	4	B	
(STANDARD-YELLOW)					
	139-8080	BEARING SET	4	B	
(STANDARD-BLACK)					
	139-8081	BEARING SET	4	B	
(STANDARD-BLUE)					
	139-8082	BEARING SET (US=0.25mm)	4	A	
	139-8083	BEARING SET (US=0.50mm)	4	A	
	139-8084	BEARING SET (US=0.75mm)	4	A	
	139-8085	BEARING SET (US=1.00mm)	4	A	
18	139-8086	BEARING SET	1	B	
(STANDARD-YELLOW)					
	139-8087	BEARING SET	1	B	
(STANDARD-BLACK)					
	139-8088	BEARING SET	1	B	
(STANDARD-BLUE)					
	139-8089	BEARING SET (US=0.25mm)	1	A	
	139-8090	BEARING SET (US=0.50mm)	1	A	
	139-8091	BEARING SET (US=0.75mm)	1	A	
	139-8092	BEARING SET (US=1.00mm)	1	A	
19	139-7917	PLATE (STANDARD)	2		
	139-7965	PLATE (OS=0.15mm)	2	A	
	139-7966	PLATE (OS=0.30mm)	2	A	
	139-7967	PLATE (OS=0.45mm)	2	A	
20	139-7918	PLATE	2		

139-7769 CYLINDER BLOCK (continued)

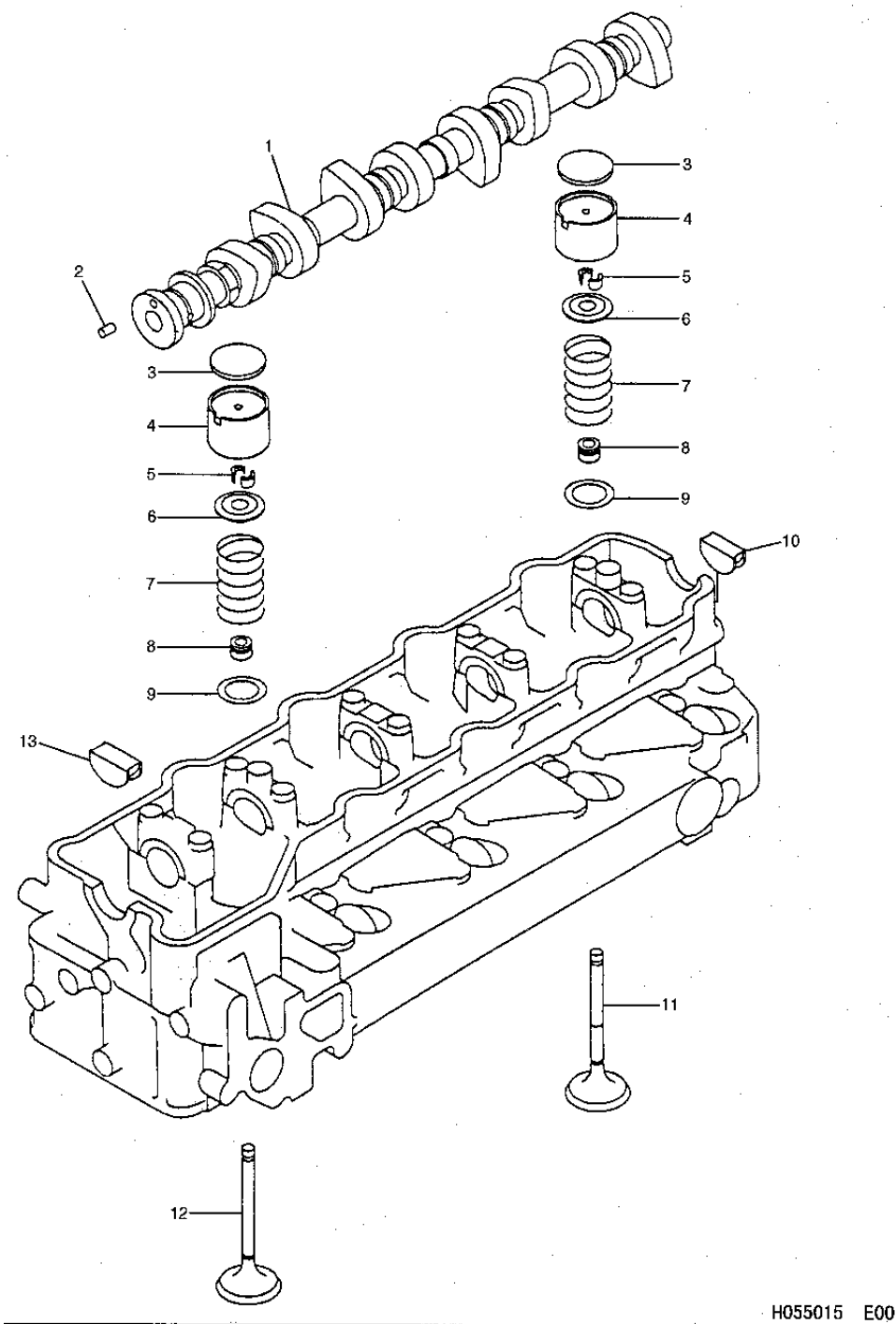
Ref.	Part number	Description	Qty	Code	Group page
	139-7968	PLATE (OS=0.15mm)	2	A	
	139-7969	PLATE (OS=0.30mm)	2	A	
	139-7970	PLATE (OS=0.45mm)	2	A	
21	094-9445	PLUG	2		
22	094-9430	GASKET	2		
23	139-7924	JET	4		
24	094-9431	GASKET	2		
25	139-8130	PLUG	1		
26	139-7984	PLUG	1		
27	5I-7505	PLUG	2		
28	139-8109	BOLT	1		
29	139-8112	BOLT (L=30mm)	2		
30	139-7916	CASE	1		
31	096-8983	BOLT (L=25mm)	4		
32	139-8030	SEAL	1		
33	1R-7662	BOLT (L=18mm)	2		
34	139-7892	PLATE	1		
35	096-8569	BOLT	3		
36	139-8031	PLATE	1		
37	139-7814	VALVE	4		

CAT codes: A, B.

139-7772 CAMSHAFT

CAMSHAFT (1397772 N/S) PART OF 1626159-Page 8

Drawing 1 of 1



H055015 E00

Ref.	Part number	Description	Qty	Code	Group page
1	139-7842	CAMSHAFT GP	1		
2	139-7943	PIN	1		
3	139-7985	SHIM (T=2.250mm)	8	B	
	139-7986	SHIM (T=2.275mm)	8	B	
	139-7987	SHIM (T=2.300mm)	8	B	

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