

CATERPILLAR 311-A

9LJ / XEBP7232

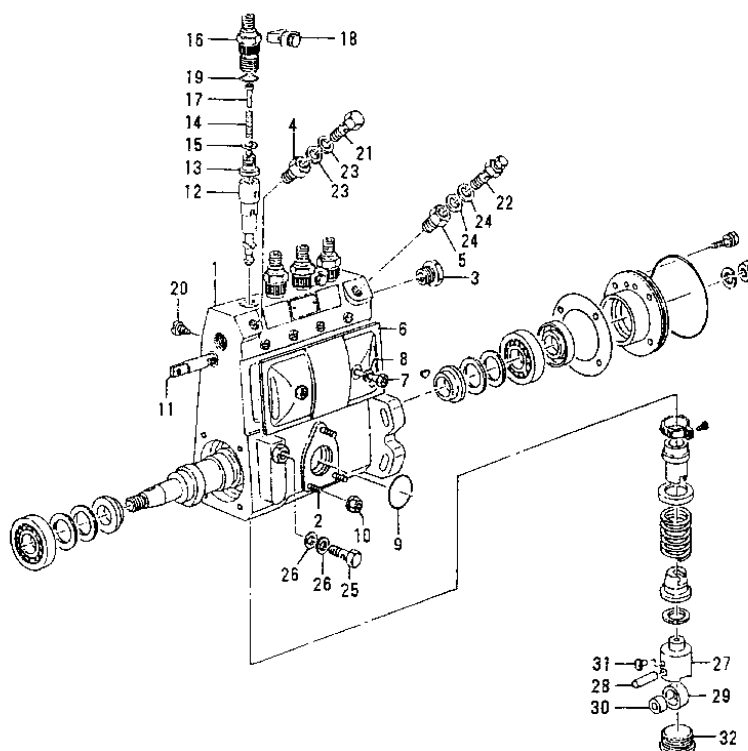
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Basic engine	
Hydraulic system	

5Q-3617 PUMP GP-FUEL INJECTION

5Q3617 PUMP GP-FUEL INJECTION - PART 1 OF 6

Drawing 1 of 1



NOTE	No.	PART No.	QTY	PART NAME	NOTE	No.	PART No.	QTY	PART NAME
	1	51-7830	1	HOUSING	B		51-5136	1	STOPPER (4.9mm THICK)
	2	085-9659	3	STUD	B		51-5137	1	STOPPER (3.9mm THICK)
	3	085-9199	1	PLUG		18	096-9492	2	PLATE
	4	51-7976	1	ADAPTER		19	096-7572	4	SEAL
	5	51-5128	1	ADAPTER		20	085-9838	1	SCREW
	6	099-8457	1	COVER		21	085-9888	1	EYEBOLT
	7	096-9486	2	SCREW		22	51-5147	1	VALVE
	8	099-2389	2	GASKET		23	095-2040	2	WASHER
	9	096-8294	1	SEAL		24	51-5148	2	GASKET
	10	1R-9206	3	NUT		25	085-9260	1	EYEBOLT
	11	085-9201	1	RACK		26	096-7632	2	GASKET
	12	51-5129	4	PLUNGER AS		27	51-5138	4	STOPPER
	13	51-5130	4	DELIVERY VALVE		28	51-5139	1	PIN
	14	51-5131	4	SPRING		29	51-5140	1	ROLLER
	15	095-2459	4	GASKET		30	099-2390	1	BUSHING
	16	085-9200	4	HOLDER		31	51-5141	1	GUIDE
B	17	51-5132	1	STOPPER (4.1mm THICK)		32	085-8198	4	PLUG
B		51-5133	1	STOPPER (4.3mm THICK)					
B		51-5134	1	STOPPER (4.5mm THICK)					
B		51-5135	1	STOPPER (4.7mm THICK)					

B-USE AS REQUIRED

H39501E

Ref.	Part number	Description	Qty	Code	Group page
1	51-7830	HOUSING	1		
2	085-9659	STUD	3		
3	085-9199	PLUG	1		
4	51-7976	ADAPTER	1		
5	51-5128	ADAPTER	1		

5Q-3617 PUMP GP-FUEL INJECTION (continued)

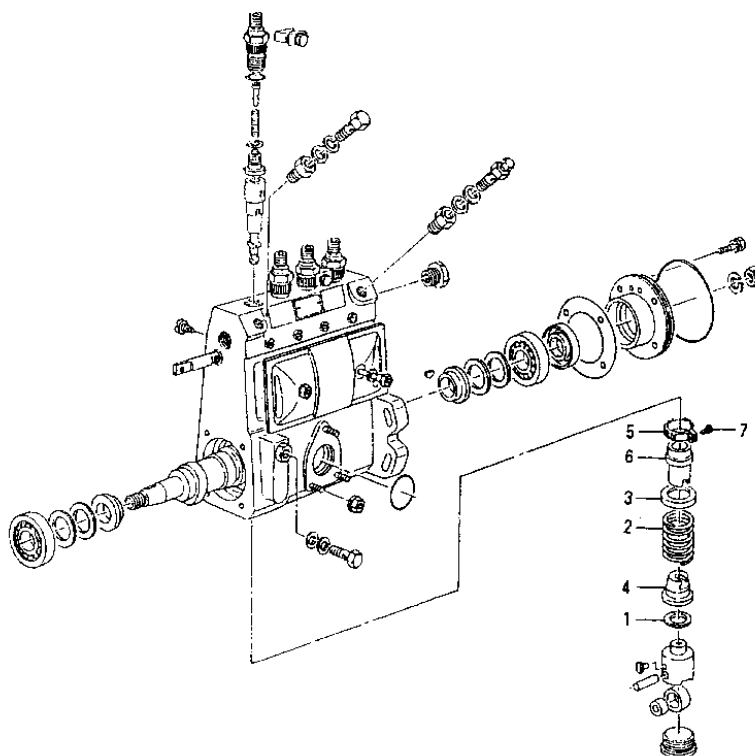
Ref.	Part number	Description	Qty	Code	Group page
6	099-8457	COVER	1		
7	096-9486	SCREW	2		
8	099-2389	GASKET	2		
9	096-8294	SEAL	1		
10	1R-9206	NUT	3		
11	085-9201	RACK	1		
12	5I-5129	PLUNGER AS	4		
13	5I-5130	DELIVERY VALVE	4		
14	5I-5131	SPRING	4		
15	095-2459	GASKET	4		
16	085-9200	HOLDER	4		
17	5I-5132	STOPPER (4.1mm THICK)	1	B	
	5I-5133	STOPPER (4.3mm THICK)	1	B	
	5I-5134	STOPPER (4.5mm THICK)	1	B	
	5I-5135	STOPPER (4.7mm THICK)	1	B	
	5I-5136	STOPPER (4.9mm THICK)	1	B	
	5I-5137	STOPPER (3.9mm THICK)	1	B	
18	096-9492	PLATE	2		
19	096-7572	SEAL	4		
20	085-9838	SCREW	1		
21	085-9888	EYEBOLT	1		
22	5I-5147	VALVE	1		
23	095-2040	WASHER	2		
24	5I-5148	GASKET	2		
25	085-9260	EYEBOLT	1		
26	096-7632	GASKET	2		
27	5I-5138	STOPPER	4		
28	5I-5139	PIN	1		
29	5I-5140	ROLLER	1		
30	099-2390	BUSHING	1		
31	5I-5141	GUIDE	1		
32	085-9198	PLUG	4		

CAT codes: B.

5Q-3617 PUMP GP-FUEL INJECTION

5Q3617 PUMP GP-FUEL INJECTION - PART 2 OF 6

Drawing 1 of 1



NOTE	No.	PART No.	QTY	PART NAME	NOTE	No.	PART No.	QTY	PART NAME
B	1	096-9408	1	SHIM (0.30mm THICK)	B		085-9239	1	SHIM (1.50mm THICK)
B		085-9223	1	SHIM (0.40mm THICK)	B		085-9240	1	SHIM (1.60mm THICK)
B		085-9224	1	SHIM (0.50mm THICK)	B		085-9241	1	SHIM (0.20mm THICK)
B		085-9225	1	SHIM (0.60mm THICK)	B		085-9242	1	SHIM (0.25mm THICK)
B		096-9409	1	SHIM (0.70mm THICK)	B		085-9243	1	SHIM (0.35mm THICK)
B		085-9226	1	SHIM (0.80mm THICK)	B		085-9244	1	SHIM (0.45mm THICK)
B		085-9227	1	SHIM (0.90mm THICK)	B		085-9245	1	SHIM (1.35mm THICK)
B		085-6719	1	SHIM (1.00mm THICK)	B		085-9246	1	SHIM (1.45mm THICK)
B		085-9228	1	SHIM (1.10mm THICK)	B		085-9247	1	SHIM (1.55mm THICK)
B		085-9229	1	SHIM (1.20mm THICK)	2	51-5142	4	SPRING	
B		085-9230	1	SHIM (1.30mm THICK)	3	096-9409	4	SEAT	
B		085-6720	1	SHIM (1.40mm THICK)	4	096-6478	4	SEAT	
B		085-9231	1	SHIM (0.55mm THICK)	5	096-9503	4	PINION	
B		085-9232	1	SHIM (0.65mm THICK)	6	096-9504	4	CONTROL	
B		085-9233	1	SHIM (0.75mm THICK)	7	085-9195	4	SCREW	
B		085-9234	1	SHIM (0.85mm THICK)					
B		085-9235	1	SHIM (0.95mm THICK)					
B		085-9236	1	SHIM (1.05mm THICK)					
B		085-9237	1	SHIM (1.15mm THICK)					
B		085-9238	1	SHIM (1.25mm THICK)					

B-USE AS REQUIRED

H32220E

Ref.	Part number	Description	Qty	Code	Group page
1	096-9408	SHIM (0.30mm THICK)	1	B	
	085-9223	SHIM (0.40mm THICK)	1	B	
	085-9224	SHIM (0.50mm THICK)	1	B	
	085-9225	SHIM (0.60mm THICK)	1	B	
	096-9409	SHIM (0.70mm THICK)	1	B	

5Q-3617 PUMP GP-FUEL INJECTION (continued)

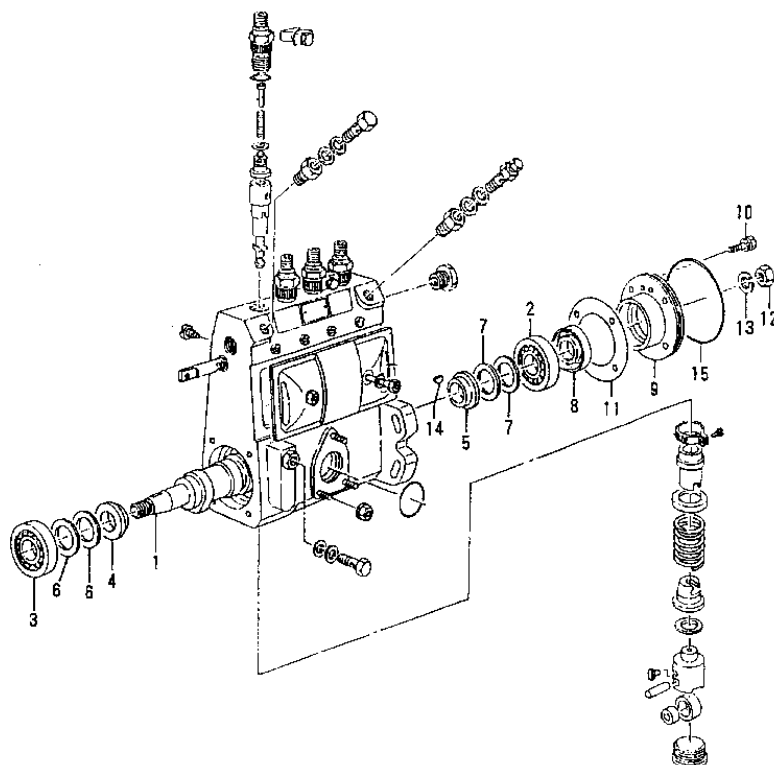
Ref.	Part number	Description	Qty	Code	Group page
	085-9226	SHIM (0.80mm THICK)	1	B	
	085-9227	SHIM (0.90mm THICK)	1	B	
	085-6719	SHIM (1.00mm THICK)	1	B	
	085-9228	SHIM (1.10mm THICK)	1	B	
	085-9229	SHIM (1.20mm THICK)	1	B	
	085-9230	SHIM (1.30mm THICK)	1	B	
	085-6720	SHIM (1.40mm THICK)	1	B	
	085-9231	SHIM (0.55mm THICK)	1	B	
	085-9232	SHIM (0.65mm THICK)	1	B	
	085-9233	SHIM (0.75mm THICK)	1	B	
	085-9234	SHIM (0.85mm THICK)	1	B	
	085-9235	SHIM (0.95mm THICK)	1	B	
	085-9236	SHIM (1.05mm THICK)	1	B	
	085-9237	SHIM (1.15mm THICK)	1	B	
	085-9238	SHIM (1.25mm THICK)	1	B	
	085-9239	SHIM (1.50mm THICK)	1	B	
	085-9240	SHIM (1.60mm THICK)	1	B	
	085-9241	SHIM (0.20mm THICK)	1	B	
	085-9242	SHIM (0.25mm THICK)	1	B	
	085-9243	SHIM (0.35mm THICK)	1	B	
	085-9244	SHIM (0.45mm THICK)	1	B	
	085-9245	SHIM (1.35mm THICK)	1	B	
	085-9246	SHIM (1.45mm THICK)	1	B	
	085-9247	SHIM (1.55mm THICK)	1	B	
2	5I-5142	SPRING	4		
3	096-9499	SEAT	4		
4	096-6478	SEAT	4		
5	096-9503	PINION	4		
6	096-9504	CONTROL	4		
7	085-9195	SCREW	4		

CAT codes: B.

5Q-3617 PUMP GP-FUEL INJECTION

5Q3617 PUMP GP-FUEL INJECTION - PART 3 OF 6

Drawing 1 of 1



NOTE	No.	PART No.	QTY	PART NAME	NOTE	No.	PART No.	QTY	PART NAME
	1	51-5656	1	CAMSHAFT	B	7	096-9410	1	SHIM (0.10mm THICK)
B	2	096-8273	1	BEARING	B		085-9682	1	SHIM (0.12mm THICK)
B		085-6723	1	BEARING	B		085-9683	1	SHIM (0.14mm THICK)
B	3	096-9294	1	BEARING	B		085-9684	1	SHIM (0.16mm THICK)
B		085-9657	1	BEARING	B		085-9685	1	SHIM (0.18mm THICK)
	4	085-6721	1	RING	B		086-9411	1	SHIM (0.50mm THICK)
	5	086-9507	1	RING	B		085-9686	1	SHIM (0.30mm THICK)
B	6	085-9248	1	SHIM (0.10mm THICK)	B		086-9412	1	SHIM (1.00mm THICK)
B		085-9249	1	SHIM (0.12mm THICK)	B		51-7831	1	SHIM
B		085-9250	1	SHIM (0.14mm THICK)		8	086-7571	1	SEAL
B		085-9251	1	SHIM (0.16mm THICK)		9	085-9197	1	COVER
B		085-9252	1	SHIM (0.18mm THICK)		10	085-9258	4	BOLT
B		085-9253	1	SHIM (0.50mm THICK)		11	089-8403	1	GASKET
B		085-9254	1	SHIM (1.00mm THICK)		12	51-5146	1	NUT
B		085-9255	1	SHIM (0.30mm THICK)		13	087-8884	1	WASHER
B		085-9256	1	SHIM (0.70mm THICK)		14	085-9259	1	KEY
B		085-9257	1	SHIM (1.40mm THICK)		15	086-7570	1	SEAL
B		51-7510	1	SHIM (2.40mm THICK)					

B=USE AS REQUIRED

H32221E

Ref.	Part number	Description	Qty	Code	Group page
1	51-5656	CAMSHAFT	1		
2	096-8273	BEARING	1	B	
	085-6723	BEARING	1	B	
3	096-9294	BEARING	1	B	
	085-9657	BEARING	1	B	

5Q-3617 PUMP GP-FUEL INJECTION (continued)

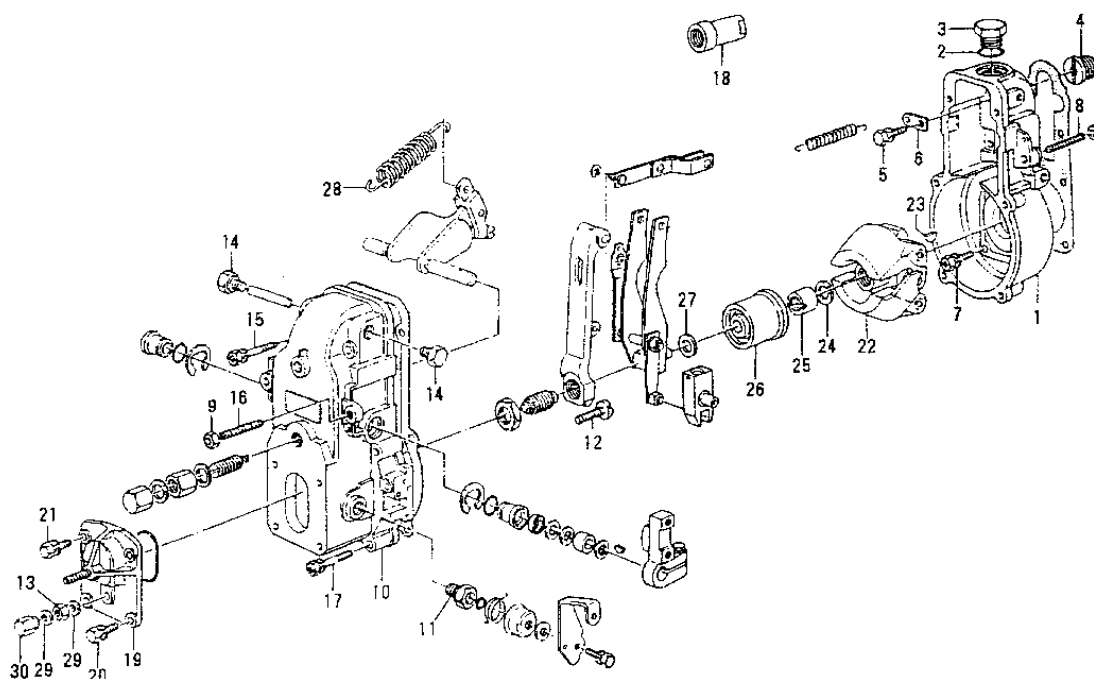
Ref.	Part number	Description	Qty	Code	Group page
4	085-6721	RING	1		
5	096-9507	RING	1		
6	085-9248	SHIM (0.10mm THICK)	1	B	
	085-9249	SHIM (0.12mm THICK)	1	B	
	085-9250	SHIM (0.14mm THICK)	1	B	
	085-9251	SHIM (0.16mm THICK)	1	B	
	085-9252	SHIM (0.18mm THICK)	1	B	
	085-9253	SHIM (0.50mm THICK)	1	B	
	085-9254	SHIM (1.00mm THICK)	1	B	
	085-9255	SHIM (0.30mm THICK)	1	B	
	085-9256	SHIM (0.70mm THICK)	1	B	
	085-9257	SHIM (1.40mm THICK)	1	B	
	5I-7510	SHIM (2.40mm THICK)	1	B	
7	096-9410	SHIM (0.10mm THICK)	1	B	
	085-9682	SHIM (0.12mm THICK)	1	B	
	085-9683	SHIM (0.14mm THICK)	1	B	
	085-9684	SHIM (0.16mm THICK)	1	B	
	085-9685	SHIM (0.18mm THICK)	1	B	
	096-9411	SHIM (0.50mm THICK)	1	B	
	085-9686	SHIM (0.30mm THICK)	1	B	
	096-9412	SHIM (1.00mm THICK)	1	B	
	5I-7831	SHIM	1	B	
8	096-7571	SEAL	1		
9	085-9197	COVER	1		
10	085-9258	BOLT	4		
11	099-8403	GASKET	1		
12	5I-5146	NUT	1		
13	087-8884	WASHER	1		
14	085-9259	KEY	1		
15	096-7570	SEAL	1		

CAT codes: B.

5Q-3617 PUMP GP-FUEL INJECTION

5Q3617 PUMP GP-FUEL INJECTION - PART 4 OF 6

Drawing 1 of 1



NOTE	No.	PART No.	QTY	PART NAME	NOTE	No.	PART No.	QTY	PART NAME
	1	51-5149	1	HOUSING		21	085-7913	2	BOLT
	2	096-8292	1	SEAL		22	51-5153	1	FLYWEIGHT AS
	3	085-9211	1	PLUG		23	085-9653	1	KEY
	4	096-9585	1	ADAPTER		24	096-8280	1	WASHER
	5	085-9261	1	BOLT		25	085-9267	1	NUT
	6	085-9208	1	PLATE		26	085-9910	1	SLEEVE
	7	085-9658	6	BOLT	B	27	085-9677	1	SHIM (0.20mm THICK)
	8	085-9903	1	SCREW	B		085-9678	1	SHIM (0.30mm THICK)
	9	085-9205	2	NUT	B		085-9679	1	SHIM (0.40mm THICK)
	10	51-5151	1	COVER	B		085-9680	1	SHIM (1.00mm THICK)
	11	099-8485	1	BUSHING	B		085-9882	1	SHIM (0.50mm THICK)
	12	085-9215	1	SCREW	B		085-9883	1	SHIM (1.50mm THICK)
	13	51-5152	1	NUT	B		085-9884	1	SHIM (2.00mm THICK)
	14	099-6495	2	PLUG	B		085-9885	1	SHIM (3.00mm THICK)
	15	085-9268	2	BOLT	B		085-9886	1	SHIM (4.00mm THICK)
	16	085-9210	1	SCREW		28	096-6361	1	SPRING
	17	085-9265	4	BOLT		29	085-7914	2	GASKET
	18	085-9906	1	LIMITER		30	085-9218	1	NUT
	19	085-9907	1	COVER					
	20	085-9264	2	BOLT					
B-USE AS REQUIRED									
H32222E									

Ref.	Part number	Description	Qty	Code	Group page
1	51-5149	HOUSING	1		
2	096-8292	SEAL	1		
3	085-9211	PLUG	1		
4	096-9585	ADAPTER	1		
5	085-9261	BOLT	1		

5Q-3617 PUMP GP-FUEL INJECTION (continued)

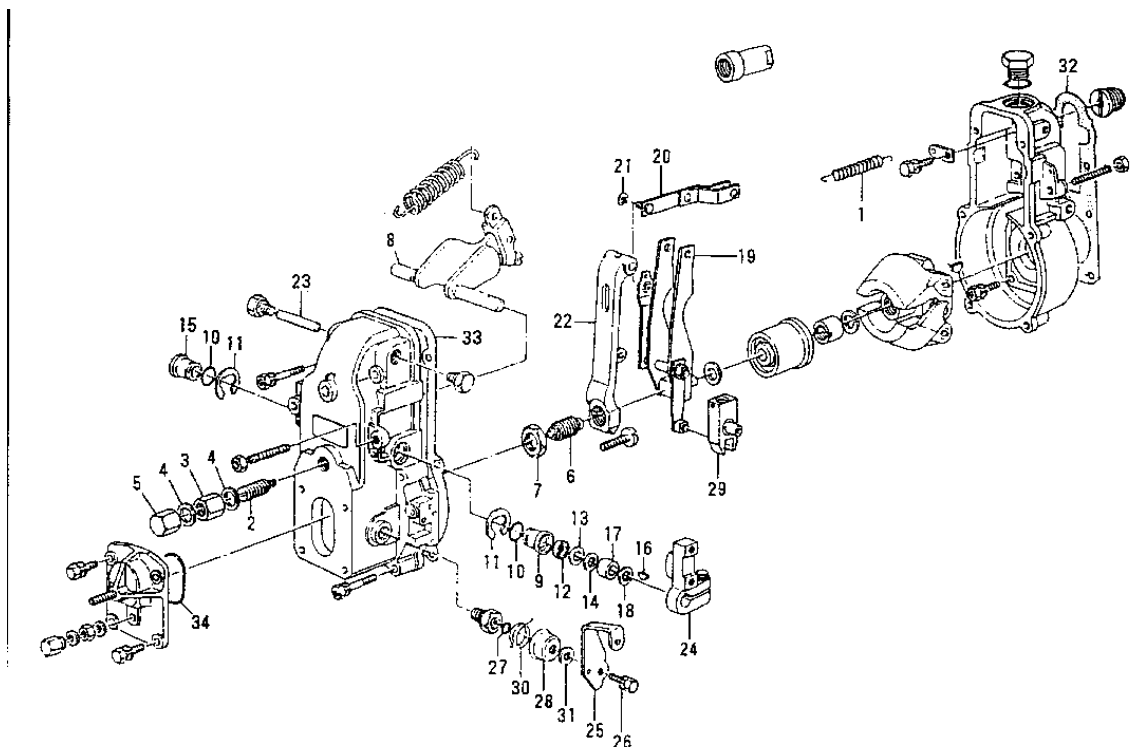
Ref.	Part number	Description	Qty	Code	Group page
6	085-9208	PLATE	1		
7	085-9658	BOLT	6		
8	085-9903	SCREW	1		
9	085-9205	NUT	2		
10	5I-5151	COVER	1		
11	099-8485	BUSHING	1		
12	085-9215	SCREW	1		
13	5I-5152	NUT	1		
14	099-6495	PLUG	2		
15	085-9266	BOLT	2		
16	085-9210	SCREW	1		
17	085-9265	BOLT	4		
18	085-9906	LIMITER	1		
19	085-9907	COVER	1		
20	085-9264	BOLT	2		
21	085-7913	BOLT	2		
22	5I-5153	FLYWEIGHT AS	1		
23	085-9653	KEY	1		
24	096-8280	WASHER	1		
25	085-9267	NUT	1		
26	085-9910	SLEEVE	1		
27	085-9677	SHIM (0.20mm THICK)	1	B	
	085-9678	SHIM (0.30mm THICK)	1	B	
	085-9679	SHIM (0.40mm THICK)	1	B	
	085-9680	SHIM (1.00mm THICK)	1	B	
	085-9882	SHIM (0.50mm THICK)	1	B	
	085-9883	SHIM (1.50mm THICK)	1	B	
	085-9884	SHIM (2.00mm THICK)	1	B	
	085-9885	SHIM (3.00mm THICK)	1	B	
	085-9886	SHIM (4.00mm THICK)	1	B	
28	096-6361	SPRING	1		
29	085-7914	GASKET	2		
30	085-9218	NUT	1		

CAT codes: B.

5Q-3617 PUMP GP-FUEL INJECTION

5Q3617 PUMP GP-FUEL INJECTION - PART 5 OF 6

Drawing 1 of 1



NOTE	No.	PART No.	QTY	PART NAME	NOTE	No.	PART No.	QTY	PART NAME
	1	085-9913	1	SPRING		21	085-9645	1	RING
	2	085-9916	1	CAPSULE		22	085-9929	1	LEVER
	3	085-9212	1	NUT		23	085-9213	1	PIN
	4	096-8274	2	GASKET		24	085-9938	1	LEVER
	5	085-9206	1	NUT		25	51-7832	1	LEVER
	6	51-5658	1	SPRING AS		26	085-9649	1	BOLT
	7	085-9269	1	NUT		27	096-8286	1	SEAL
	8	51-7512	1	LEVER		28	096-6353	1	CAP
	9	51-7513	1	BUSHING		29	085-9932	1	LEVER AS
	10	096-8289	2	SEAL		30	099-0059	1	SPRING
	11	085-9271	2	RING	B	31	096-6346	1	SHIM(0.20mm THICK)
	12	096-7567	1	SEAL	B		096-6347	1	SHIM(0.25mm THICK)
	13	085-9887	1	SHIM	B		096-6348	1	SHIM(0.30mm THICK)
B	14	085-9681	1	SHIM(0.3mm THICK)	B		096-6349	1	SHIM(0.35mm THICK)
	15	51-7514	1	BUSHING	B		096-6350	1	SHIM(0.40mm THICK)
	16	085-9652	1	KEY	B		096-6351	1	SHIM(0.50mm THICK)
	17	085-7916	1	COLLAR		32	096-8361	1	GASKET
B	18	085-9207	1	WASHER		33	096-3516	1	GASKET
	19	096-8359	1	LEVER AS		34	096-8297	1	SEAL
	20	096-9587	1	LINK					

B-USE AS REQUIRED

H32223E

Ref.	Part number	Description	Qty	Code	Group page
1	085-9913	SPRING	1		
2	085-9916	CAPSULE	1		
3	085-9212	NUT	1		
4	096-8274	GASKET	2		
5	085-9206	NUT	1		

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