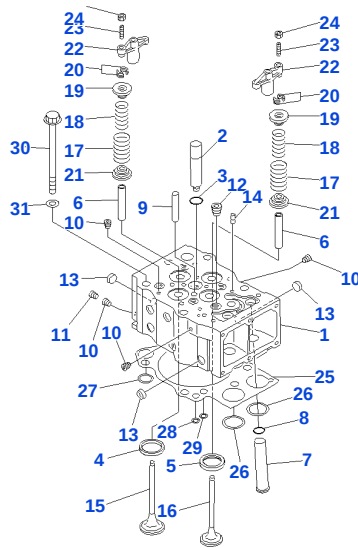




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Reference: A1010-A6A1

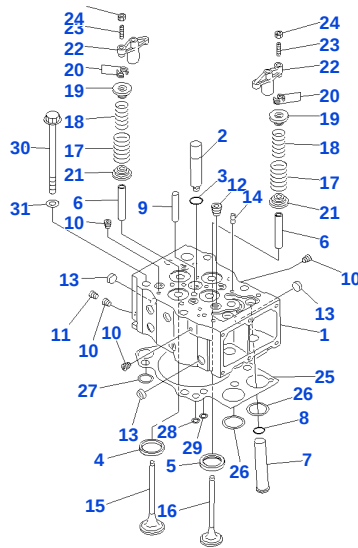
030010 CYLINDER HEAD

Item	Part No.	Part Name	Qty	Options
	6162-13-1103	CYLINDER HEAD ASSEMBLY, WITHOUT VALVE	6	SN: 17462-UP
	6162-13-1102	☐ CYLINDER HEAD ASSEMBLY, WITHOUT VALVE	6	SN: 14209-17461
	6162-13-1100	☐ CYLINDER HEAD ASSEMBLY, WITHOUT VALVE	6	SN: 11500-14208
1		• ☆ HEAD,CYLINDER	1	SN: 11500-UP
2	6162-13-1130	• SLEEVE	1	SN: 11500-UP
3	6162-12-1152	• O-RING	1	SN: 11500-UP
4	6162-15-1370	• INSERT,INTAKE VALVE (STD)	2	SN: 17462-UP
4	6162-13-1330	• ☐ INSERT,INTAKE VALVE (STD)	2	SN: 11500-17461
4	6162-19-1370	• INSERT, 0.25MM, INTAKE VALVE (OS)	2	SN: 17462-UP
4	6162-19-1330	• ☐ INSERT, 0.25MM, INTAKE VALVE (OS)	2	SN: 11500-17461
4	6162-18-1370	• INSERT, 0.50MM, INTAKE VALVE (OS)	2	SN: 17462-UP
4	6162-18-1330	• ☐ INSERT, 0.50MM, INTAKE VALVE (OS)	2	SN: 11500-17461
4	6162-17-1370	• INSERT, 0.75MM, INTAKE VALVE (OS)	2	SN: 17462-UP
4	6162-17-1330	• ☐ INSERT, 0.75MM, INTAKE VALVE (OS)	2	SN: 11500-17461
4	6162-16-1370	• INSERT, 1.00MM,INTAKE VALVE (OS)	2	SN: 17462-UP
4	6162-16-1330	• ☐ INSERT, 1.00MM,INTAKE VALVE (OS)	2	SN: 11500-17461
5	6162-13-1322	• INSERT, EXHAUST VALVE (STD)	2	SN: 12381-UP
5	6162-13-1321	• ☒ INSERT, EXHAUST VALVE (STD)	2	SN: (12381-14208)
5	6162-13-1320	• ☐ INSERT, EXHAUST VALVE (STD)	2	SN: 11500-12380
5	6162-19-1322	• INSERT, 0.25MM, EXHAUST VALVE (OS)	2	SN: 12381-UP
5	6162-19-1321	• ☒ INSERT, 0.25MM, EXHAUST VALVE (OS)	2	SN: (12381-14208)
5	6162-19-1320	• ☐ INSERT, 0.25MM, EXHAUST VALVE (OS)	2	SN: 11500-12380
5	6162-18-1322	• INSERT, 0.50MM,EXHAUST VALVE (OS)	2	SN: 12381-UP
5	6162-18-1321	• ☒ INSERT, 0.50MM,EXHAUST VALVE (OS)	2	SN: (12381-14208)
5	6162-18-1320	• ☐ INSERT, 0.50MM,EXHAUST VALVE (OS)	2	SN: 11500-12380
5	6162-17-1322	• INSERT, 0.75MM, EXHAUST VALVE (OS)	2	SN: 12381-UP
5	6162-17-1321	• ☒ INSERT, 0.75MM, EXHAUST VALVE (OS)	2	SN: (12381-14208)
5	6162-17-1320	• ☐ INSERT, 0.75MM, EXHAUST VALVE (OS)	2	SN: 11500-12380
5	6162-16-1322	• INSERT, 1.00MM, EXHAUST VALVE (OS)	2	SN: 12381-UP
5	6162-16-1321	• ☒ INSERT, 1.00MM, EXHAUST VALVE (OS)	2	SN: (12381-14208)
5	6162-16-1320	• ☐ INSERT, 1.00MM, EXHAUST VALVE (OS)	2	SN: 11500-12380
6	6162-16-1341	• GUIDE, VALVE	4	SN: 11500-UP
7	6162-13-1160	• TUBE, PUSH ROD	2	SN: 11500-UP
8	07000-73028	• O-RING	2	SN: 20328-UP
8	07000-63028	• ☐ O-RING	2	SN: 11500-20327
9	6162-13-1140	• GUIDE,CROSSHEAD	2	SN: 11500-UP
10	07043-50108	• PLUG	4	SN: 14209-UP
10	07043-50108	• PLUG	3	SN: 11500-14208
11	07043-50211	• PLUG	1	SN: 11500-UP
12	07043-50617	• PLUG	5	SN: 11500-UP
13	6162-13-1150	• PLUG, EXPANSION	12	SN: 13306-UP
13	6162-13-1150	• PLUG, EXPANSION	11	SN: 11500-13305
14	6162-13-1410	• PIN	2	SN: 11500-UP
15	6162-43-4111	VALVE, INTAKE	12	SN: 19576-UP
15	6162-43-4110	☐ VALVE, INTAKE	12	SN: 11500-19575

Item	Part No.	Part Name	Qty	Options
16	6164-41-4211	VALVE,EXHAUST	12	SN: 14209-UP
16	6164-41-4210	☐ VALVE,EXHAUST	12	SN: 11500-14208
17	6162-43-4440	SPRING,OUTER	24	SN: 19422-UP
17	6162-43-4410	☐ SPRING,OUTER	24	SN: 11500-19421
18	6162-43-4420	SPRING, INNER	24	SN: 11500-UP
19	6162-43-4510	SEAT, SPRING	24	SN: 11500-UP
20	6240-41-4520	COTTER, VALVE	48	SN: 22195-UP
20	6162-42-4520	◆ COTTER, VALVE	48	SN: 11500-22194
21	6162-43-4430	SEAT, SPRING	24	SN: 11500-UP
22	6162-43-5610	CROSSHEAD	12	SN: 11500-UP
23	6162-43-5641	SCREW	12	SN: 20329-UP
23	6162-43-5640	☐ SCREW	12	SN: 11500-20328
24	6127-41-5630	NAT	12	SN: 11500-UP
		STANDARD		
25	6162-13-1812	GASKET, HEAD	6	SN: 12100-UP
25	6162-17-1811	☒ GASKET, HEAD	6	SN: (12100-14060)
25	6162-13-1811	☐ GASKET, HEAD	6	SN: 12000-12099
25	6162-13-1810	☐ GASKET, HEAD	6	SN: 11500-11999
26	6162-13-1820	• GROMMET,OIL	2	SN: 11500-UP
27	6162-13-1832	• GROMMET, WATER	1	SN: 11500-UP
27	6162-13-1831	• ☒ GROMMET, WATER	1	SN: (11500-14060)
28		• ☆ GROMMET,OIL	1	SN: 11500-UP
29	6162-13-1851	• GROMMET, WATER	1	SN: 11500-UP
29	6162-13-1850	• ☒ GROMMET, WATER	1	SN: (11500-14060)
		OVERSIZE 0.40MM		
25	6162-19-1812	GASKET, HEAD	6	SN: 12100-UP
25	6162-19-1811	☒ GASKET, HEAD	6	SN: (12100-14060)
25	6162-19-1810	☐ GASKET, HEAD	6	SN: 11500-12099
26	6162-19-1820	• GROMMET,OIL	2	SN: 11500-UP
27	6162-19-1832	• GROMMET, WATER	1	SN: 11500-UP
27	6162-19-1831	• ☒ GROMMET, WATER	1	SN: (11500-14060)
28	6162-19-1840	• GROMMET,OIL	1	SN: 11500-UP
29	6162-19-1851	• GROMMET, WATER	1	SN: 11500-UP
29	6162-19-1850	• ☒ GROMMET, WATER	1	SN: (11500-14060)
30	6162-15-1610	BOLT, HEAD	36	SN: 18066-UP
30	6162-13-1611	☐ BOLT, HEAD	36	SN: 12100-18065
30	6162-13-1610	◆ BOLT, HEAD	36	SN: 11500-12099
31	6162-13-1620	WASHER	36	SN: 11500-UP

Catalog signs: ☐ part above may be used instead ☆ not supplied separately: assembly only ☒ discontinued: use part above ◆ interchangeable with part above

Reference: A1010-A6A1



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Reference: A1010-A6B1

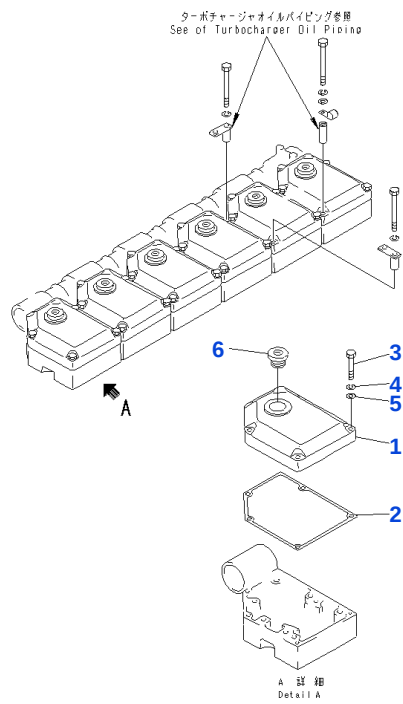
030020 CYLINDER HEAD (LONG OVERHAUL SPEC)

Item	Part No.	Part Name	Qty	Options
	6162-13-1500	CYLINDER HEAD ASSEMBLY, WITHOUT VALVE	6	SN: 17462-UP
	6162-13-1102	☐ CYLINDER HEAD ASSEMBLY, WITHOUT VALVE	6	SN: 14209-17461
	6162-13-1100	☐ CYLINDER HEAD ASSEMBLY, WITHOUT VALVE	6	SN: 11500-14208
1		• ☆ HEAD,CYLINDER	1	SN: 11500-UP
2	6162-13-1130	• SLEEVE	1	SN: 11500-UP
3	6162-12-1152	• O-RING	1	SN: 11500-UP
4	6162-15-1380	• INSERT,INTAKE VALVE (STD)	2	SN: 17462-UP
4	6162-13-1330	• ☐ INSERT,INTAKE VALVE (STD)	2	SN: 11500-17461
4	6162-19-1380	• INSERT, 0.25MM, INTAKE VALVE (OS)	2	SN: 17462-UP
4	6162-19-1330	• ☐ INSERT, 0.25MM, INTAKE VALVE (OS)	2	SN: 11500-17461
4	6162-18-1380	• INSERT, 0.50MM, INTAKE VALVE (OS)	2	SN: 17462-UP
4	6162-18-1330	• ☐ INSERT, 0.50MM, INTAKE VALVE (OS)	2	SN: 11500-17461
4	6162-17-1380	• INSERT, 0.75MM, INTAKE VALVE (OS)	2	SN: 17462-UP
4	6162-17-1330	• ☐ INSERT, 0.75MM, INTAKE VALVE (OS)	2	SN: 11500-17461
4	6162-16-1380	• INSERT, 1.00MM,INTAKE VALVE (OS)	2	SN: 17462-UP
4	6162-16-1330	• ☐ INSERT, 1.00MM,INTAKE VALVE (OS)	2	SN: 11500-17461
5	6162-13-1322	• INSERT, EXHAUST VALVE (STD)	2	SN: 12381-UP
5	6162-13-1321	• ☒ INSERT, EXHAUST VALVE (STD)	2	SN: (12381-14208)
5	6162-13-1320	• ☐ INSERT, EXHAUST VALVE (STD)	2	SN: 11500-12380
5	6162-19-1322	• INSERT, 0.25MM, EXHAUST VALVE (OS)	2	SN: 12381-UP
5	6162-19-1321	• ☒ INSERT, 0.25MM, EXHAUST VALVE (OS)	2	SN: (12381-14208)
5	6162-19-1320	• ☐ INSERT, 0.25MM, EXHAUST VALVE (OS)	2	SN: 11500-12380
5	6162-18-1322	• INSERT, 0.50MM,EXHAUST VALVE (OS)	2	SN: 12381-UP
5	6162-18-1321	• ☒ INSERT, 0.50MM,EXHAUST VALVE (OS)	2	SN: (12381-14208)
5	6162-18-1320	• ☐ INSERT, 0.50MM,EXHAUST VALVE (OS)	2	SN: 11500-12380
5	6162-17-1322	• INSERT, 0.75MM, EXHAUST VALVE (OS)	2	SN: 12381-UP
5	6162-17-1321	• ☒ INSERT, 0.75MM, EXHAUST VALVE (OS)	2	SN: (12381-14208)
5	6162-17-1320	• ☐ INSERT, 0.75MM, EXHAUST VALVE (OS)	2	SN: 11500-12380
5	6162-16-1322	• INSERT, 1.00MM, EXHAUST VALVE (OS)	2	SN: 12381-UP
5	6162-16-1321	• ☒ INSERT, 1.00MM, EXHAUST VALVE (OS)	2	SN: (12381-14208)
5	6162-16-1320	• ☐ INSERT, 1.00MM, EXHAUST VALVE (OS)	2	SN: 11500-12380
6	6162-16-1341	• GUIDE, VALVE	4	SN: 11500-UP
7	6162-13-1160	• TUBE, PUSH ROD	2	SN: 11500-UP
8	07000-73028	• O-RING	2	SN: 20328-UP
8	07000-63028	• ☐ O-RING	2	SN: 11500-20327
9	6162-13-1140	• GUIDE,CROSSHEAD	2	SN: 11500-UP
10	07043-50108	• PLUG	4	SN: 14209-UP
10	07043-50108	• PLUG	3	SN: 11500-14208
11	07043-50211	• PLUG	1	SN: 11500-UP
12	07043-50617	• PLUG	5	SN: 11500-UP
13	6162-13-1150	• PLUG, EXPANSION	12	SN: 13306-UP
13	6162-13-1150	• PLUG, EXPANSION	11	SN: 11500-13305
14	6162-13-1410	• PIN	2	SN: 11500-UP
15	6162-43-4111	VALVE, INTAKE	12	SN: 19576-UP
15	6162-43-4110	☐ VALVE, INTAKE	12	SN: 11500-19575

Item	Part No.	Part Name	Qty	Options
16	6164-41-4211	VALVE,EXHAUST	12	SN: 14209-UP
16	6164-41-4210	☐ VALVE,EXHAUST	12	SN: 11500-14208
17	6162-43-4440	SPRING,OUTER	24	SN: 19422-UP
17	6162-43-4410	☐ SPRING,OUTER	24	SN: 11500-19411
18	6162-43-4420	SPRING, INNER	24	SN: 11500-UP
19	6162-43-4510	SEAT, SPRING	24	SN: 11500-UP
20	6240-41-4520	COTTER, VALVE	48	SN: 22195-UP
20	6162-42-4520	◆ COTTER, VALVE	48	SN: 11500-22194
21	6162-43-4430	SEAT, SPRING	24	SN: 11500-UP
22	6162-43-5610	CROSSHEAD	12	SN: 11500-UP
23	6162-43-5641	SCREW	12	SN: 20329-UP
23	6162-43-5640	SCREW	12	SN: 11500-20328
24	6127-41-5630	NAT STANDARD	12	SN: 11500-UP
25	6162-13-1812	GASKET, HEAD	6	SN: 12100-UP
25	6162-17-1811	☒ GASKET, HEAD	6	SN: (12100-14060)
25	6162-13-1811	☐ GASKET, HEAD	6	SN: 12000-12099
25	6162-13-1810	☐ GASKET, HEAD	6	SN: 11500-11999
26	6162-13-1820	• GROMMET,OIL	2	SN: 11500-UP
27	6162-13-1832	• GROMMET, WATER	1	SN: 11500-UP
27	6162-13-1831	• ☒ GROMMET, WATER	1	SN: (11500-14060)
28		• ☆ GROMMET,OIL	1	SN: 11500-UP
29	6162-13-1851	• GROMMET, WATER	1	SN: 11500-UP
29	6162-13-1850	• ☒ GROMMET, WATER OVERSIZE 0.40MM	1	SN: (11500-14060)
25	6162-19-1812	GASKET, HEAD	6	SN: 12100-UP
25	6162-19-1811	☒ GASKET, HEAD	6	SN: (12100-14060)
25	6162-19-1810	☐ GASKET, HEAD	6	SN: 11500-12099
26	6162-19-1820	• GROMMET,OIL	2	SN: 11500-UP
27	6162-19-1832	• GROMMET, WATER	1	SN: 11500-UP
27	6162-19-1831	• ☒ GROMMET, WATER	1	SN: (11500-14060)
28	6162-19-1840	• GROMMET,OIL	1	SN: 11500-UP
29	6162-19-1851	• GROMMET, WATER	1	SN: 11500-UP
29	6162-19-1850	• ☒ GROMMET, WATER	1	SN: (11500-14060)
30	6162-15-1610	BOLT, HEAD	36	SN: 18066-UP
30	6162-13-1611	☐ BOLT, HEAD	36	SN: 12100-18065
30	6162-13-1610	◆ BOLT, HEAD	36	SN: 11500-12099
31	6162-13-1620	WASHER	36	SN: 11500-UP

Catalog signs: ☐ part above may be used instead ☆ not supplied separately: assembly only ☒ discontinued: use part above ◆ interchangeable with part above

Reference: A1010-A6B1



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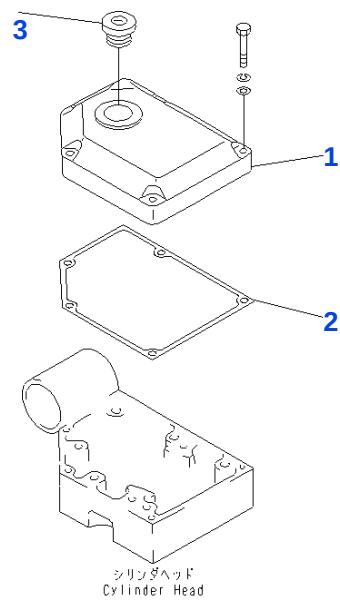
Reference: A1110-A6A1

030030 ROCKER ARM HOUSING COVER (#11500-19280)

Item	Part No.	Part Name	Qty	Options
1	6162-13-8112	COVER, HEAD	6	SN: 11500-19280
2	6162-13-8812	GASKET	6	SN: 16082-19280
2	6162-13-8811	□ GASKET	6	SN: 13284-16081
2	6162-13-8810	◆ GASKET	6	SN: 11500-13283
3	01010-81055	BOLT	28	SN: 11500-19280
4	01602-01030	WASHER, SPRING	28	SN: 11500-19280
5	01640-01016	WASHER	28	SN: 11500-19280
6	6162-13-8181	PACKING, NOZZLE HOLDER	6	SN: 11500-19280
6	6162-13-8180	☒ PACKING, NOZZLE HOLDER	6	SN: (11500-12380)

Catalog signs: □ part above may be used instead ◆ interchangeable with part above ☒ discontinued: use part above

Reference: A1110-A6A1



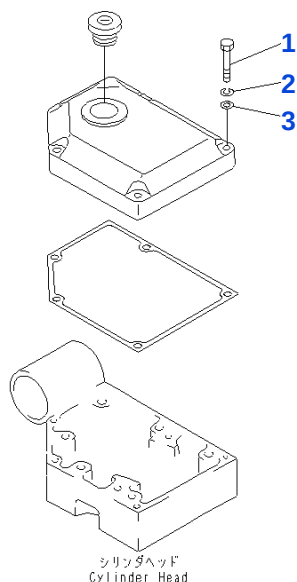
P J D 4 8 8 2

Reference: A1110-A6A4

030040 ROCKER ARM HOUSING COVER(#19281-)

Item	Part No.	Part Name	Qty	Options
1	6162-13-8112	COVER, HEAD	6	SN: 19281-UP
2	6162-13-8812	GASKET	6	SN: 19281-UP
3	6162-13-8181	PACKING, NOZZLE HOLDER	6	SN: 19281-UP

Reference: A1110-A6A4



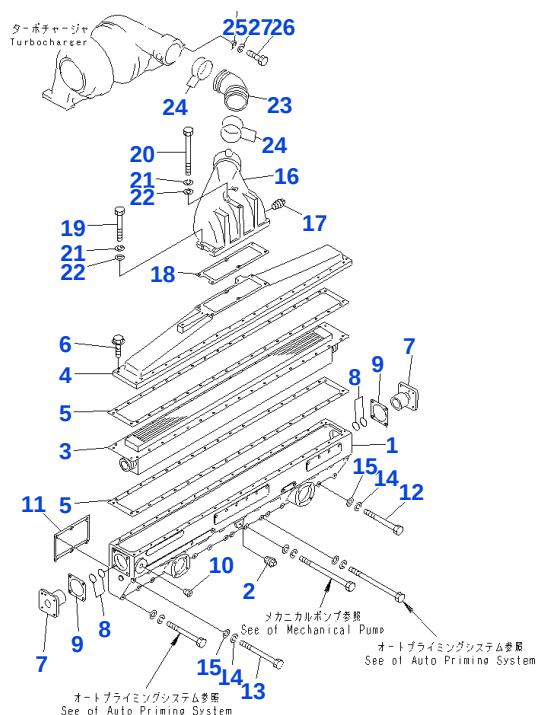
P J D 4 8 3 3

Reference: A1111-A6A1

030050 HEAD COVER RELATED PARTS(#19281-)

Item	Part No.	Part Name	Qty	Options
1	01010-81055	BOLT	28	SN: 19281-UP
2	01602-01030	WASHER, SPRING	28	SN: 19281-UP
3	01640-01016	WASHER	28	SN: 19281-UP

Reference: A1111-A6A1



P003320

Reference: A1310-A6B6

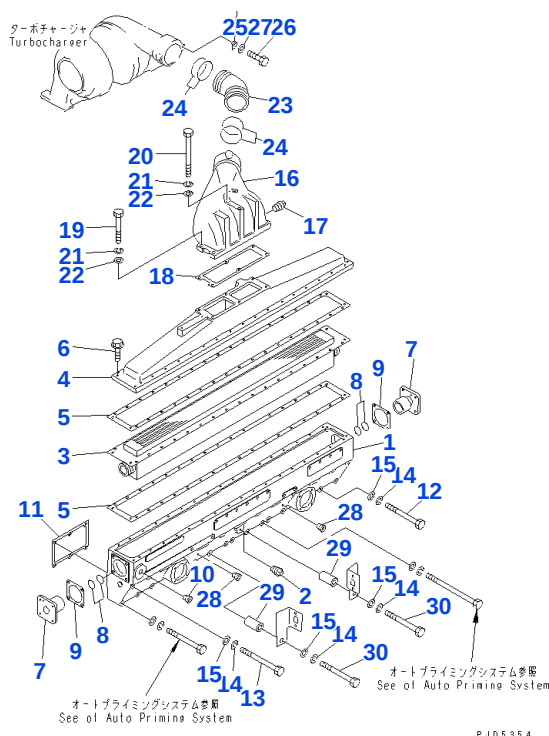
030060 AIR INTAKE MANIFOLD AND AFTER COOLER (#11500-17461)

Item	Part No.	Part Name	Qty	Options
1	6162-13-4111	MANIFOLD, AIR INTAKE	1	SN: 11500-@
2	07042-00108	PLUG	1	SN: 11500-@
3	6162-65-6120	CORE ASSEMBLY	1	SN: 14849-@
3	6162-63-6121	☐ CORE ASSEMBLY	1	SN: 11500-14848
3	6162-63-6120	☐ CORE ASSEMBLY	1	SN: 11500-12930
4	6162-13-4662	COVER	1	SN: 12931-@
4	6162-13-4661	◆ COVER	1	SN: 11500-12930
5	6162-13-4141	GASKET	2	SN: 14849-@
5	6162-13-4140	☐ GASKET	2	SN: 11500-14848
6	01435-00840	BOLT	38	SN: 11500-@
7	6162-63-6830	CONNECTOR	2	SN: 11500-@
8	6162-63-6230	O-RING	4	SN: 14849-@
8	6110-11-2820	◆ O-RING	4	SN: 11500-14848
9	6162-63-6841	GASKET	2	SN: 14849-@
9	6162-63-6840	☐ GASKET	2	SN: 11500-14848
10	02720-21214	PLUG	1	SN: 11500-@
11	6162-13-4812	GASKET	6	SN: 14849-@
11	6162-13-4811	☐ GASKET	6	SN: 11500-14848
11	6162-13-4810	☒ GASKET	6	SN: (11500-14640)
12	01010-81095	BOLT	13	SN: 11500-17461
13	01011-81055	BOLT, (FOR A.P.S.)	15	SN: 13343-@
13	01011-81055	BOLT, (FOR A.P.S.)	16	SN: 11500-13342
13	01011-81055	BOLT,(WITHOUT A.P.S.)	18	SN: 11500-@
14	01602-01030	WASHER, SPRING	29	SN: 11500-17461
15	01640-21016	WASHER	29	SN: 11500-17461
16	6162-13-4410	CONNECTOR, AIR	1	SN: 11500-@
17	07042-00108	PLUG	2	SN: 11500-@
18	6162-13-4741	GASKET	1	SN: 14849-@
18	6162-13-4740	☐ GASKET	1	SN: 11500-14848
19	01010-80840	BOLT	4	SN: 11500-@
20	581-08-11960	BOLT	2	SN: 11500-@
21	01602-00825	WASHER, SPRING	6	SN: 11500-@
22	01641-20812	WASHER	6	SN: 11500-@

Item	Part No.	Part Name	Qty	Options
23	6128-11-4320	CONNECTOR, AIR	1	SN: 11500-@
24	02895-67091	O-RING	4	SN: 11500-@
25	6710-11-4780	PLATE	4	SN: 11500-@
26	01010-80820	BOLT	4	SN: 11500-@
27	01602-00825	WASHER, SPRING	4	SN: 11500-@

Catalog signs: ☐ part above may be used instead ☒ interchangeable with part above ☒ discontinued: use part above

Reference: A1310-A6B6



Reference: A1310-A6B6A

030070 AIR INTAKE MANIFOLD AND AFTER COOLER(#17462-)

Item	Part No.	Part Name	Qty	Options
	6162-63-6103	AFTER COOLER ASSEMBLY	1	SN: 11500-UP
1	6162-13-4111	MANIFOLD, AIR INTAKE	1	SN: 11500-UP
2	07042-00108	PLUG	1	SN: 11500-UP
3	6162-65-6120	CORE ASSEMBLY	1	SN: 14849-UP
4	6162-15-4660	COVER	1	SN: 19422-UP
4	6162-13-4662	□ COVER	1	SN: 12931-19421
5	6162-13-4141	GASKET	2	SN: 14849-UP
6	01435-00840	BOLT	38	SN: 11500-UP
7	6162-63-6830	CONNECTOR	2	SN: 11500-UP
8	6162-63-6230	O-RING	4	SN: 14849-UP
9	6162-63-6841	GASKET	2	SN: 14849-UP
10	02720-21214	PLUG	1	SN: 11500-UP
11	6162-13-4812	GASKET	6	SN: 14849-UP
12	01010-81095	BOLT, (FOR A.P.S.)	15	SN: 17462-UP
12	01010-81095	BOLT, (WITHOUT A.P.S.)	18	SN: 17462-UP
13	01011-81055	BOLT, (FOR A.P.S.)	15	SN: 13343-UP
13	01011-81055	BOLT, (WITHOUT A.P.S.)	18	SN: 11500-UP
14	01602-01030	WASHER, SPRING	31	SN: 17462-UP
15	01640-21016	WASHER	31	SN: 17462-UP
16	6162-13-4410	CONNECTOR, AIR	1	SN: 11500-UP
17	07042-00108	PLUG	2	SN: 11500-UP
18	6162-13-4741	GASKET	1	SN: 14849-UP
19	01010-80840	BOLT	4	SN: 11500-UP
20	581-08-11960	BOLT	2	SN: 11500-UP
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22	01641-20812	WASHER	6	SN: 11500-UP
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25	6710-11-4780	PLATE	4	SN: 11500-UP
26	01010-80820	BOLT	4	SN: 11500-UP
27	01602-00825	WASHER, SPRING	4	SN: 11500-UP
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