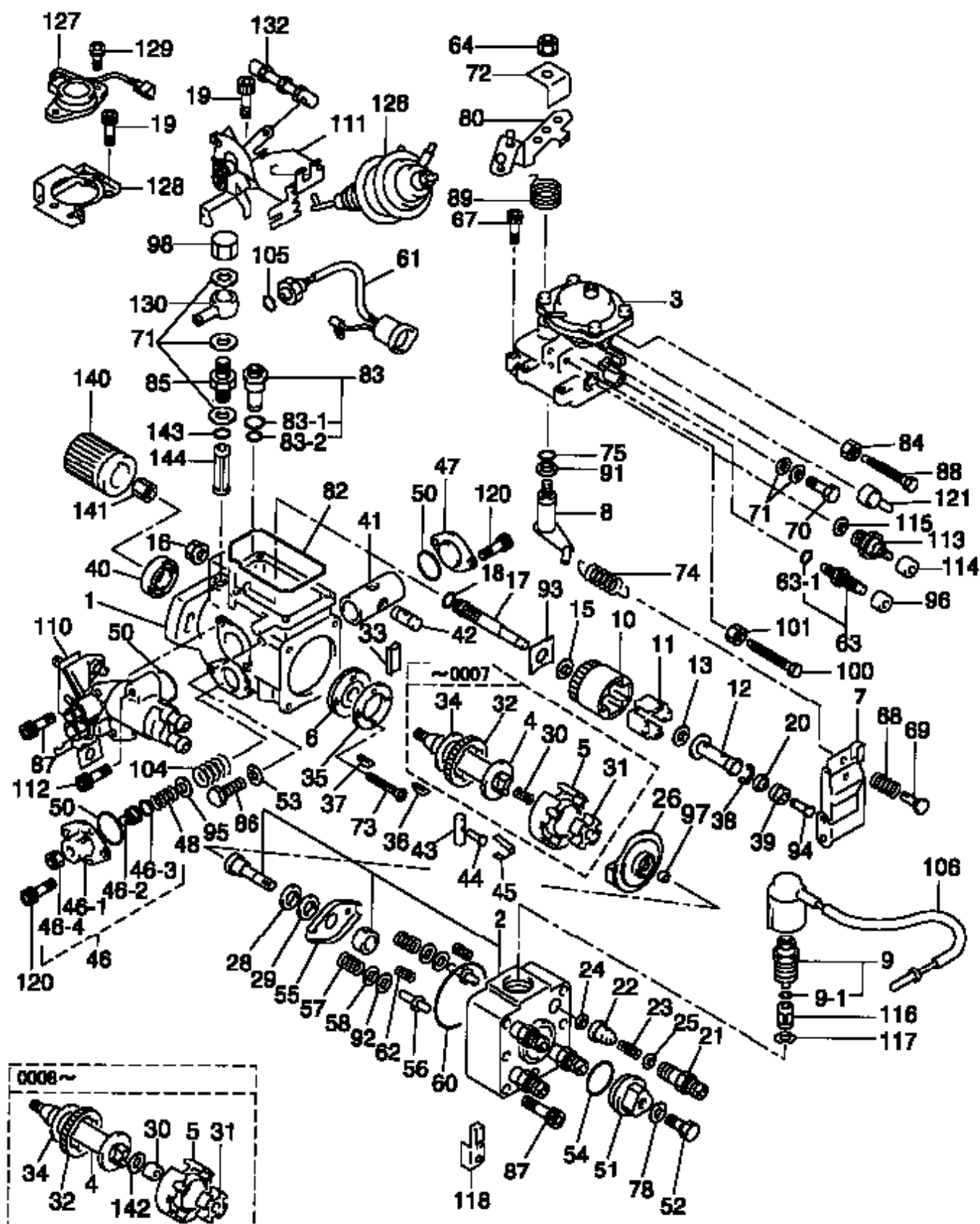




Compo. P/N: 196000-1102

Assy P/N: 196000-1102

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		0	PUMP ASSY, INJECTI	196000-1102	22100-5C340	01				
		1	HOUSING SUB-ASSY,	096110-1110	22101-17840	01				
		2	HEAD SUB-ASSY, DIS	096400-1581	22140-5C090	01				
		3	COMPENSATOR SUB-AS	096490-1560	22540-5C340	01				
S		4	SHAFT, DRIVE	096121-0140	22170-17840	01			0007	
S		4	SHAFT, DRIVE	096121-0320	22170-5C120	01	D	0008		
S		5	RING SUB-ASSY, ROL	096180-0290	22108-5C090	01				
		6	PUMP SUB-ASSY, FUE	096140-0030	22505-54010	01				
		7	GOVERNOR ASSY, TOR	096270-1521	22350-5C340	01				
S		8	SHAFT SUB-ASSY, GO	096450-0050	22740-21910	1C				MARK 8
S		8	SHAFT SUB-ASSY, GO	096450-0460	22740-58650	1C				MARK 30
		9	SOLENOID ASSY, FUE	096030-0170	22390-56290	01			9702	FCV,24V
		9	SOLENOID ASSY, FUE	096030-0540		01	B	9702		FCV,24V
		9-1	O-RING	096049-0350		01				ID15.3
		10	HOLDER SUB-ASSY, F	096260-0050	22741-54020	01				
S		11	FLYWEIGHT, DISTRIB	096263-0050	22745-5C090	04				
		12	SLEEVE, GOVERNOR	096252-0450	22316-55030	01			9609	
		12	SLEEVE, GOVERNOR	096252-2010	22316-5C270	01	B	9609		
S		13	WASHER, FLYWEIGHT	096265-0030	22753-54020	01				ROUND TYPE
S		15	WASHER, FLYWEIGHT	096265-0020	22753-54010	01				T1.30
		16	NUT, GOVERNOR SHAF	096254-0050	22722-54470	01				M10,L SCREW
		17	SHAFT, GOVERNOR MA	096251-0020	22384-54010	01				
		18	O-RING	949140-2930	90099-14049	01				ID 8
		19	BOLT, SOCKET	096449-0110	22395-56351	05				M6,L16
		20	RING, GOVERNOR SLE	096255-0020	22147-54290	01				
		21	HOLDER, DELIVERY V	096425-0190	22131-17420	04				
		22	VALVE SUB-ASSY, DI	096420-0720	22104-17840	04				CPV
S		23	SPRING, DELIVERY V	096427-0050	22148-5B250	04				
		24	GASKET, DELIVERY V	096426-0070	22149-56351	04				
		25	SEAT, DELIVERY VAL	096428-0010	22141-54010	04				
S		26	CAMPLATE SUB-ASSY,	096230-0401	22130-5C090	01				
S		28	PLATE, PLUNGER, LW	096245-0020	22163-54010	01				
S		29	PLATE, PLUNGER, UP	096244-0040	22162-54010	01				
		30	SPRING, COUPLING	096224-0111	22659-17840	01			0007	
		30	SPACER, COUPLING	096225-0010	90099-70002	01	D	0008		
		31	COUPLING	096222-0070	22632-17840	01				
		32	GEAR, GOVERNOR DRI	096124-0030	22341-54010	01				
		33	JOINT, RUBBER	096126-0020	22169-54180	02				
		34	WASHER, DRIVE SHAF	096125-0010	22161-54010	01				
S		35	COVER, FEED PUMP	096147-0052	22511-58650	01				
		36	KEY, WOODRUFF	949130-0260	90099-13017	01				
		37	KEY, WOODRUFF	949130-0300	90099-13018	01				T4.023
		38	E-RING	90577-02000	90096-90024	01				D2
S		39	BEARING, BALL	949100-2860	90099-10148	01				OD8
S		40	SEAL, OIL	096039-0040	22544-64740	01				
		41	PISTON ASSY, TIMER	096190-1212	22550-5C130	01				
		42	SUB-PISTON, TIMER	096213-0020	22657-54010	01				
		43	PIN, TIMER SLIDE	096205-0060	22655-17840	01				

Compo. P/N: 196000-1102

Assy P/N: 196000-1102

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		44	STOPPER, TIMER SLI	096216-0120	22658-17840	01				
		45	CLIP, TIMER	096211-0080	22656-17840	01				
		46	COVER SUB-ASSY, TI	096210-0870	22790-17020	01				TIMER COVER
		46-1	COVER, TIMER	096218-0870	22612-17020	01				
		46-2	STOPPER, TIMER SLI	096216-0110	22658-17020	01				
		46-3	O-RING	096049-0290	22193-17020	01				ID8.8
		46-4	NUT, HEXAGON	949050-5010	90099-05225	01				
		47	COVER, TIMER	096218-0901	22612-17840	01			0408	
		47	COVER, TIMER	096218-1030		01	B	0408		
		48	SPRING, TIMER, OUT	096208-1940	22615-5C153	1C				K0.12
		48	SPRING, TIMER, OUT	096208-1950	22615-5C120	1C				K0.13
		48	SPRING, TIMER, OUT	096208-1960	22615-5C154	1C				K0.14
		48	SPRING, TIMER, OUT	096208-1970	22615-5C121	1C				K0.15
		48	SPRING, TIMER, OUT	096208-1980	22615-5C122	1C				K0.16
		50	O-RING	096049-0400	22193-17840	03				ID27.5
S		51	PLUG, DISTRIBUTIVE	096417-0040	22176-54020	01				
		52	BOLT, DISTRIBUTIVE	096418-0060	22128-56330	01				
		53	GASKET, DELIVERY V	096426-0030	22149-56200	02			9703	ID8.2,T1
		53	GASKET, DELIVERY V	096426-0130	22149-54771	02	B	9704		
		54	O-RING	949140-2970	90099-14052	01			9607	ID30
		54	O-RING	096049-0510	22193-54772	01	A	9607		ID30
S		55	SHEET, PLUNGER SPR	096247-0030	22145-56350	01				
		56	GUIDE SUB-ASSY, PL	096237-0020	22192-56350	02				
		57	SPRING, PLUNGER	096236-0100	22144-17840	02			9809	
		57	SPRING, PLUNGER	096236-0110	22144-5C090	02	A	9810		
		58	SHEET, PLUNGER SPR	096246-0030	22143-56350	02				
		60	O-RING	949140-2980	90099-14053	01				ID60
		61	PICKUP ASSY, TACHO	076300-2020	83180-36050	01				
		62	SPRING, LEVER SUPP	096279-0010	22314-54010	02				K1.03
		63	SMOKE SET SUB-ASSY	096480-0020		01				
		63-1	O-RING	949140-2900	90099-14047	01			9607	
		63-1	O-RING	096049-0470	22193-54771	01	A	9607		ID5
		64	NUT	949056-1680	90179-06009	01				M6
		67	BOLT, SOCKET	096449-0020	22395-54010	04				M6,L35
		68	SPRING, GOVERNOR I	096289-0350	22317-56350	01				
		69	SHEET, GOVERNOR SP	096267-0030	22369-54010	01				
		70	SCREW SUB-ASSY, OV	096020-0180	22160-56350	01				W/FILTER
		71	WASHER, AIR BLEEDE	090241-0010	22119-77020	05				T1.6
		72	GUIDE, RETURN SPRI	096445-0011	22728-54010	01				MARK 1
		73	SCREW, COUNTERSUNK	949002-0420	90099-00723	02				M4,L28
		74	SPRING, SPEED CONT	096261-0820	22726-56350	01				
		75	O-RING	096049-0300	22193-54770	01				ID 6.5
		78	GASKET, DELIVERY V	096426-0060	22149-56350	01				FOR HEAD PLUG
		80	LEVER SUB-ASSY, AD	096435-5640	22701-5C271	1C				MARK564
		80	LEVER SUB-ASSY, AD	096435-5650	22701-5C272	1C				MARK565
		80	LEVER SUB-ASSY, AD	096435-5660	22701-5C273	1C				MARK566
		82	GASKET, GOVERNOR C	096446-0100	22774-54270	01				
S		83	VALVE SUB-ASSY, RE	096160-0140	22180-56351	01				

Compo. P/N: 196000-1102

Assy P/N: 196000-1102

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		83-1	O-RING	096049-0180	22193-54561	01				ID10
		83-2	O-RING	949140-2920	90099-14080	01			9607	ID7.5
		83-2	O-RING	096049-0500		01	A	9607		
		84	NUT, LOCK	096342-0010	22775-77121	01				
		85	SCREW, HOLLOW	949180-0770	90099-18022	01				M12,L43.5
		86	BOLT, GOVERNOR LIN	096269-0020	22739-54020	02				
		87	BOLT, SOCKET	096449-0070	22395-58200	05				M6,L45
		88	BOLT, HEXAGON, W/	949045-0210	90099-04954	01				M6,L62
		89	SPRING, RETURN	096444-0050	22322-17170	01				
		91	WASHER, GOVERNOR T	096273-0140	22378-64010	01				T0.5
		92	SHIM, PLUNGER SPRI	096248-0010	22182-54010	2C				T0.5
		92	SHIM, PLUNGER SPRI	096248-0020	22183-54010	2C				T0.8
		92	SHIM, PLUNGER SPRI	096248-0030	22184-54010	2C				T1.0
		92	SHIM, PLUNGER SPRI	096248-0040	22185-54010	2C				T1.2
		92	SHIM, PLUNGER SPRI	096248-0050	22186-54010	2C				T1.5
		92	SHIM, PLUNGER SPRI	096248-0060	22187-54010	2C				T1.8
		92	SHIM, PLUNGER SPRI	096248-0070	22188-54010	2C				T2.0
		92	SHIM, PLUNGER SPRI	096248-0080	22182-17010	2C				T0.9
		92	SHIM, PLUNGER SPRI	096248-0090	22182-17011	2C				T1.1
		92	SHIM, PLUNGER SPRI	096248-0100	22182-17012	2C				T1.3
		92	SHIM, PLUNGER SPRI	096248-0110	22182-17013	2C				T1.4
		92	SHIM, PLUNGER SPRI	096248-0230		2C				T0.2
		92	SHIM, PLUNGER SPRI	096248-0240		2C				T0.3
		92	SHIM, PLUNGER SPRI	096248-0250		2C				T0.4
		92	SHIM, PLUNGER SPRI	096248-0260		2C				T0.6
		92	SHIM, PLUNGER SPRI	096248-0270		2C				T0.7
		93	WASHER, GOVERNOR G	096266-0100	22713-54010	1C				T1.05
		93	WASHER, GOVERNOR G	096266-0110	22714-54010	1C				T1.25
		93	WASHER, GOVERNOR G	096266-0120	22715-54010	1C				T1.45
		93	WASHER, GOVERNOR G	096266-0130	22716-54010	1C				T1.65
		93	WASHER, GOVERNOR G	096266-0140	22717-54010	1C				T1.85
		93	WASHER, GOVERNOR G	096266-0150		1C				T1.55
		93	WASHER, GOVERNOR G	096266-0160		1C				T1.75
		93	WASHER, GOVERNOR G	096266-0170		1C				T2.05
		93	WASHER, GOVERNOR G	096266-0270		1C				T1.3
		93	WASHER, GOVERNOR G	096266-0280		1C				T1.4
		93	WASHER, GOVERNOR G	096266-0290		1C				T1.5
		93	WASHER, GOVERNOR G	096266-0300		1C				T1.6
		93	WASHER, GOVERNOR G	096266-0310		1C		9807		T1.15
		93	WASHER, GOVERNOR G	096266-0320		1C		9807		T1.2
		93	WASHER, GOVERNOR G	096266-0330		1C		9807		T1.7
		93	WASHER, GOVERNOR G	096266-0340		1C		9807		T1.8
		94	PLUG, GOVERNOR SLE	096256-0400	22787-64641	1C				L3.0
		94	PLUG, GOVERNOR SLE	096256-0410	22787-64642	1C				L3.1
		94	PLUG, GOVERNOR SLE	096256-0420	22787-64643	1C				L3.2
		94	PLUG, GOVERNOR SLE	096256-0430	22787-54026	1C				L3.3
		94	PLUG, GOVERNOR SLE	096256-0440	22787-54027	1C				L3.4
		94	PLUG, GOVERNOR SLE	096256-0450	22787-54028	1C				L3.5

Compo. P/N: 196000-1102

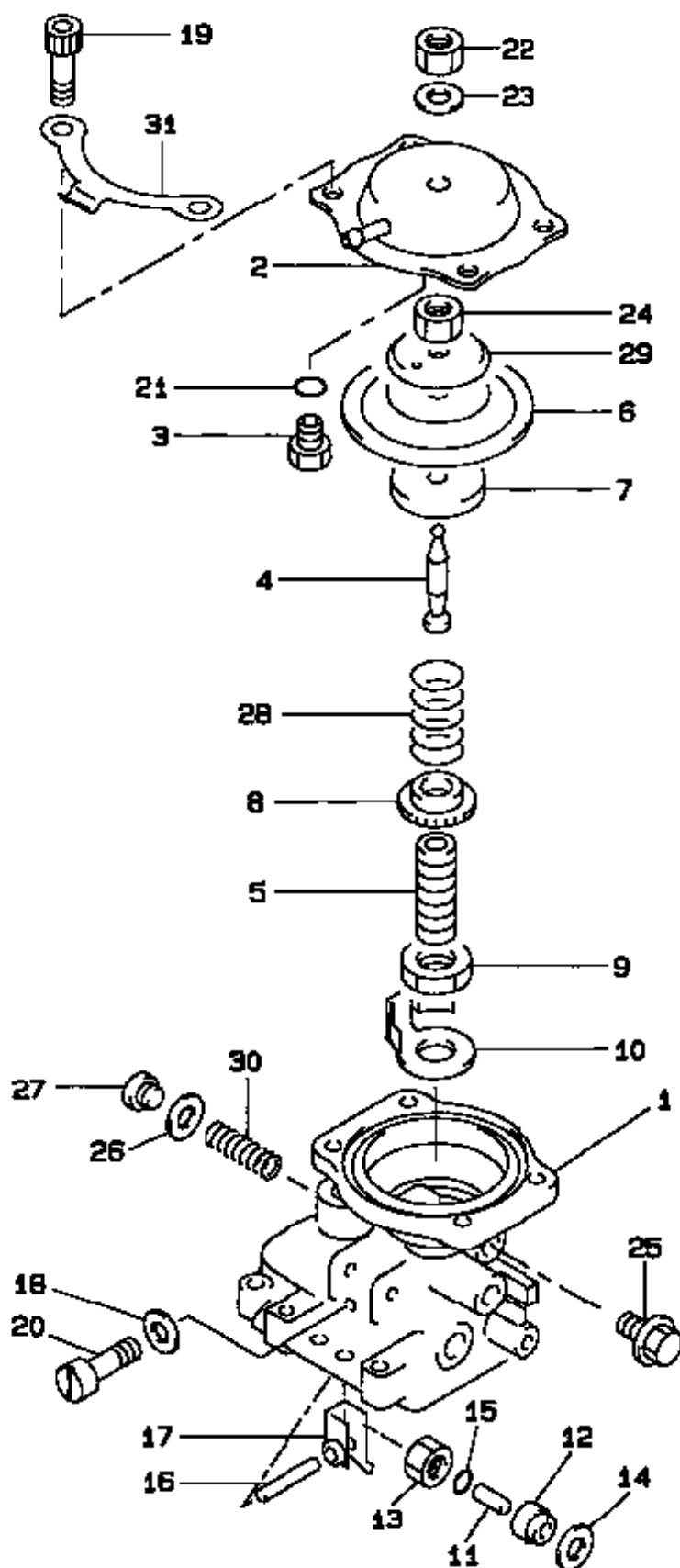
Assy P/N: 196000-1102

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		94	PLUG, GOVERNOR SLE	096256-0460	22787-54029	1C				L3.6
		94	PLUG, GOVERNOR SLE	096256-0470	22787-54030	1C				L3.7
		94	PLUG, GOVERNOR SLE	096256-0480	22787-54031	1C				L3.8
		94	PLUG, GOVERNOR SLE	096256-0490	22787-54032	1C				L3.9
		94	PLUG, GOVERNOR SLE	096256-0500	22787-54033	1C				L4.0
		94	PLUG, GOVERNOR SLE	096256-0510	22787-64640	1C				L4.1
		94	PLUG, GOVERNOR SLE	096256-0520	22787-64680	1C				L4.2
		94	PLUG, GOVERNOR SLE	096256-0530	22787-54034	1C				L4.3
		94	PLUG, GOVERNOR SLE	096256-0540	22787-17140	1C				L4.4
		94	PLUG, GOVERNOR SLE	096256-0650	22787-54035	1C				L4.5
		94	PLUG, GOVERNOR SLE	096256-0660	22787-17141	1C				L4.6
		94	PLUG, GOVERNOR SLE	096256-0670	22787-54036	1C				L4.7
		94	PLUG, GOVERNOR SLE	096256-0680	22787-17142	1C				L4.8
		94	PLUG, GOVERNOR SLE	096256-0690	22787-17143	1C				L4.9
		94	PLUG, GOVERNOR SLE	096256-0700	22787-17144	1C				L5.0
		94	PLUG, GOVERNOR SLE	096256-0750	22787-17145	1C				L5.1
		94	PLUG, GOVERNOR SLE	096256-0760	22787-17146	1C				L5.2
		94	PLUG, GOVERNOR SLE	096256-0770	22787-17147	1C				L5.3
		94	PLUG, GOVERNOR SLE	096256-0780	22787-17148	1C				L5.4
		94	PLUG, GOVERNOR SLE	096256-0790	22787-17149	1C				L5.5
		94	PLUG, GOVERNOR SLE	096256-0800	22787-17150	1C				L5.6
		94	PLUG, GOVERNOR SLE	096256-0810	22787-17151	1C				L5.7
		94	PLUG, GOVERNOR SLE	096256-0820	22787-17152	1C				L5.8
		94	PLUG, GOVERNOR SLE	096256-0830	22787-56350	1C				L5.9
		94	PLUG, GOVERNOR SLE	096256-0840	22787-56351	1C				L6.0
		94	PLUG, GOVERNOR SLE	096256-0850	22787-56352	1C				L6.1
		94	PLUG, GOVERNOR SLE	096256-0860	22787-56353	1C				L6.2
		94	PLUG, GOVERNOR SLE	096256-0870	22787-56354	1C				L6.3
		94	PLUG, GOVERNOR SLE	096256-0880	22787-56355	1C				L6.4
		94	PLUG, GOVERNOR SLE	096256-0890	22787-56356	1C				L6.5
		94	PLUG, GOVERNOR SLE	096256-0900	22787-56357	1C				L6.6
		95	WASHER, TIMER SENS	096214-0190	22625-17540	01				
		96	COLLAR, SMOKE SET	096448-0111		01				
		97	SHIM, PLUNGER ADJU	096406-0020	22179-54010	1C				T1.9
		97	SHIM, PLUNGER ADJU	096406-0170	22179-54013	1C				T2.2
		97	SHIM, PLUNGER ADJU	096406-0270	22179-54015	1C				T2.4
		97	SHIM, PLUNGER ADJU	096406-0420	22179-54018	1C				T2.7
		97	SHIM, PLUNGER ADJU	096406-0520	22179-54020	1C				T2.9
		98	NUT, CAP	949055-0300	90099-05161	01				M12
		100	BOLT, HEXAGON, W/	949045-0240	90099-04335	01				M6,L70
		101	NUT, HEXAGON	949050-4800	90099-05190	01				M6
		104	SPRING, TIMER, OUT	096208-1370	22615-17030	01				K1.7
		105	O-RING	096049-0190	22193-64750	01				ID14.8
		106	WIRE SUB-ASSY	096045-0990	22751-5C270	01				
		110	COVER SUB-ASSY, TI	096210-1102	22790-5C270	01				ACSD
		111	IDLE UP SUB-ASSY	096470-0561	22305-5C270	01				
		112	BOLT, SOCKET	096449-0100	22395-56352	02				M6,L10
S		113	VALVE SUB-ASSY, RE	096160-0310	22180-5C090	01			9609	

Compo. P/N: 196000-1102

Assy P/N: 196000-1102

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		113	BODY, REGULATE VAL	096161-0160	22180-17140	01	B	9609		
		114	COLLAR, SMOKE SET	096448-0290	22749-55050	01			9609	FOR D/P
		115	WASHER, COPPER PLA	949018-1580	90099-01533	1C				T1.0
		115	WASHER, AIR BLEEDE	090241-0010	22119-77020	1C				T1.6
S		116	FILTER, SUB-ASSY	096530-0071	22602-56350	01				
		117	WASHER	096064-0110	22689-56350	01				
		118	CLIP, CONNECTOR SU	096029-1740	22172-5C270	01				
		120	BOLT, SOCKET	096449-0280	22395-17840	04				
		121	CAP RUBBER	096468-0250	22777-54261	01				
		126	ACTUATOR SET, IDLE	096472-0990	26133-5C100	01				
		127	SENSOR, ROTARY POS	198500-5021	89452-36010	01				
		128	BRACKET, IDLE UP	096438-2941	22178-5C270	01				
		129	SCREW, W/WASHER	91370-04121	93315-14012	02				M4,L12
		130	NIPPLE SUB-ASSY, S	092218-0150	22548-17010	01				
		132	ROD SUB-ASSY	096464-0050	22331-58490	01				
		140	SHAFT, SPLINE	092575-0162	22174-58270	01				
		141	NUT, TIMER ROUND	090012-0190	22611-58200	01				
		142	WASHER	096064-0220	22689-5B170	01		0008		T1.8
		143	O-RING	096049-0460	22193-5B320	01		9701		ID6.5
S		144	FILTER, SUB-ASSY	096530-0111	22602-5B320	01		9701		



OP1403

Compo. P/N: 096490-1560

Assy P/N: 196000-1102

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
0			COMPENSATOR SUB-AS	096490-1560	22540-5C340	01				
1			COVER SUB-ASSY, GO	096440-0664	22703-64850	01				
2			COVER SUB-ASSY, GO	096440-0860	22703-54262	01				
3			STOPPER, TIMER SLI	096216-0030	22658-64518	01				
4			R0D, PUSH	096465-0940	22321-5C130	01				
5			BUSHING, GUIDE	096118-0160	22348-64360	01				
6			DIAPHRAGM	192631-0010	22542-54260	01				
7			SHEET, PLUNGER SPR	096246-0020	22143-54260	01				
8			BUSHING, GUIDE	096118-0190	22348-54490	01				
9			NUT, HEXAGON	949050-4070	90099-05156	01				M18
10			CLIP, TIMER	096211-0070	22656-54490	01				
11			PIN, LEVER CONECTI	096455-0090	22338-54120	01				
12			BUSHING, GUIDE	096118-0020	22348-54121	01				
13			NUT, GOVERNOR SHAF	096254-0021	22722-54120	01				
14			WASHER, COPPER PLA	949018-1680	90099-01473	01				T1
15			O-RING	096049-0230	22193-55031	01				ID 4
16			PIN, LEVER SUPPORT	096272-0040	22526-54120	01				
17			LEVER SUB-ASSY, CO	096295-0080	22308-54140	01			9805	
17			LEVER SUB-ASSY, CO	096295-0680	22308-17570	01	B	9806		
18			GASKET, DELIVERY V	096426-0110	22149-6D450	02				
19			BOLT, SOCKET	096449-0130	22395-54263	04				M6,L14
20			BOLT, GOVERNOR LIN	096269-0032	22739-54120	02				
21			O-RING	096049-0180	22193-54561	01				ID10
22			NUT, HEXAGON	949050-4100	90099-05181	01			0602	M8
22			NUT, HEXAGON	949050-5430	90099-05252	01	B	0602		M8
23			WASHER, PLATE	90200-08211	90093-00802	01				T1
24			NUT, HEXAGON	90176-06361	90092-20608	01				
25			SCREW SUB-ASSY, OV	096020-0110	22160-54262	01				W/FILTER
26			WASHER, AIR BLEEDE	090241-0010	22119-77020	01				T1.6
27			PLUG, SCREW	090317-0240	22129-55110	01				
28			SPRING, BOOST COMP	096492-0040	22546-54260	1C				L19.8
28			SPRING, BOOST COMP	096492-0070	22546-54261	1C				L19.6
28			SPRING, BOOST COMP	096492-0150	22546-54490	1C				L20.3
28			SPRING, BOOST COMP	096492-0160	22546-54491	1C				L19.7
28			SPRING, BOOST COMP	096492-0170	22546-54492	1C				L19.2
29			WASHER, THRUST	192633-0010	22549-17140	01				
30			SPRING	096466-0120	22327-58780	01				
31			CLIP, CONNECTOR SU	096029-1660	22172-5C130	01				

INJECTION PUMP TEST SPECIFICATIONS

196000-1100

INJECTION PUMP	196000-110# (VE4/12F1725RND110)	MANU-FACTURER	TOYOTA
Governor Type	All speed	ENGINE TYPE	15B-FT
Rated Voltage	24V	VEHICLE MODEL	MEGA CRUISER
Rotation	Clockwise viewed from drive side	Dimension (mm) MS : 1.60 – 1.70	
Injection Order	A – B – C – D	Dimension (mm) K : 3.40 – 3.60	
Injection Interval	90° ±30'	Dimension (mm) KF : 7.00 – 7.20	

1. TEST CONDITIONS

1) Nozzle	: 093400-0540 (DN12SD12A)	4) Feed Pressure	: 0.2 kgf/cm ²
2) Nozzle Opening Pressure	: 145 – 155 kgf/cm ²	5) High Pressure Pipe	: 12 x 16 x 840 mm
3) Test Oil	: SAE J967 (ISO4113)	6) Fuel Temperature	: 40 – 42°C (104 – 113°F)

NOTE: Apply 14 volts DC across the fuel cut solenoid during adjustment.

2. PRE-ADJUSTMENT (at full lever position, boost pressure 400 mmHg)

	Pump Speed (rpm)	Fuel Delivery (cc/200st- 1cyl.)	Remarks
Full Load	1100	17.64 – 18.56	By full load setting screw
High Speed	1900	6.20 – 9.80	By max. speed setting screw

Load Sensing Timer: Adjust the governor shaft so that the dimension "L" between the housing flange and the end of the governor shaft is about 2.5 mm.

3. ADJUSTMENT OF PUMP INTERNAL PRESSURE (at full lever position, boost pressure 400 mmHg)

Pump Speed (rpm)	Internal Pressure (kgf/cm ²)	Remarks
500	1.4 – 2.0	By the regulating valve
1600	6.4 – 7.0	

4. OVERFLOW QUANTITY CHECK (at full lever position, boost pressure 400 mmHg)

Pump Speed (rpm)	Overflow Quantity (cc/1000st)	Remarks
1600	390.0 – 670.0	The overflow valve belonging to the pump should be used for checking.

5. ADJUSTMENT OF TIMER (at full lever position, boost pressure 400 mmHg)

Pump Speed (rpm)	700	1100	1300	1600
Piston Travel (mm)	1.00 – 1.80	3.70 – 4.50	5.10 – 5.90	6.96 – 7.44

NOTE: Hysteresis at each pump speed is less than 0.3 mm.

6. ADJUSTMENT OF FUEL DELIVERY					
Lever Position	Pump speed (rpm)	Fuel Delivery (cc/200st, 1cyl)	Max. Spread In Delivery (cc)	Boost Pressure Absolute Pressure (mmHg)	Remarks
FULL	1100	17.84 – 18.36	0.6	400	By full load setting screw
	1900	6.40 – 9.60	—	400	By max. speed setting screw
	2000	2.60 – 4.60	—	400	
	2300	Less than 0.40	—	400	
	100	16.00 – 20.00	1.2	—	By governor sleeve plug
	500	12.00 – 13.00	0.6	220	
	700	15.70 – 16.90	0.6	400	
	900	17.70 – 18.70	0.6	400	
	1300	16.80 – 17.80	0.6	400	
	1600	16.30 – 17.30	0.6	400	
—	—	—	—		
7. SETTING OF LOAD SENSING TIMER					
N.A. : Not Applicable					
	Pump Speed (rpm)	Fuel Delivery (cc/200st, 1cyl)	Remarks		
Start of Load Sensing	N.A.	N.A.			
End of Pressure Drop	N.A.	N.A.			
8. SETTING OF ADJUSTING LEVER AT LOW SPEED (at idle lever position)					
Lever Position	Pump Speed (rpm)	Fuel Delivery (cc/500st, 1cyl)	Max. Spread In Delivery (cc)	Remarks	
IDLE	435	A = 6.5 – 7.5	—	Dash pot fully loosen Screw down the dash pot screw By idle setting screw	
	435	A + (0.5 – 1.0)	—		
	435	2.0 – 5.0	1.25		
9. ADJUSTMENT OF BOOST COMPENSATOR					
Pump Speed (rpm)	Boost Pressure (mmHg)	Fuel Delivery (cc/200st, 1cyl)	Remarks		
500	0	9.3 – 9.9	By eccentric cam By boost compensator spring		
500	150	10.1 – 10.9			
1100	0	13.5 – 14.5			
1100	450	17.8 – 18.4			
1600	700	Less than 16.8			
10. ADJUSTMENT OF T.C.V.					
N.A. : Not Applicable					
Pump Speed (rpm)		Boost Pressure (mmHg)		Piston Stroke (mm)	
N.A.		N.A.		N.A.	

INJECTION PUMP TEST SPECIFICATIONS

196000-1100

11. ADJUSTMENT OF THROTTLE POSITION SENSOR (Applying 5.0 ±0.01V to sensor.)				
	Pump Speed (rpm)	Condition		Sensor Output Voltage
Set point	—	Lever Position : Full		0.5760 – 0.6240
Check point	—	Lever Position : Idle		2.1625 – 3.1625
12. CHARACTERISTIC OF A.C.S.D. N.A. : Not Applicable				
Lever Position	Pump Speed (rpm)	Fuel Temperature (°C)	Measuring Value	Remarks
IDLE	400	24 – 26	Piston Travel (mm) : 1.6 – 1.8	
	400	24 – 26	Idle-up Quantity (cc/500st) : B + (3.25 – 3.75)	
13. ADJUSTMENT OF POWER CONTROL N.A. : Not Applicable				
Lever Position	Pump Speed (rpm)	Boost Pressure (mmHg)	Fuel Delivery (cc/200st. 1cyl)	Remarks
FULL	N.A.	N.A.	N.A.	
14. ADJUSTMENT OF DASH POT N.A. : Not Applicable				
Pump Speed (rpm)	Boost Pressure (mmHg)		Fuel Delivery (cc/500st)	Remarks
N.A.	N.A.		N.A.	
15. FINAL CHECK AFTER ADJUSTMENT				
(1) Range of lever angle between idle and full lever position is 33° ±5°.				
(2) Resistance of pick-up tachometer must be 650 – 970 ohms.				
(3) B is measured quantity (cc/500st) at 400 rpm.				

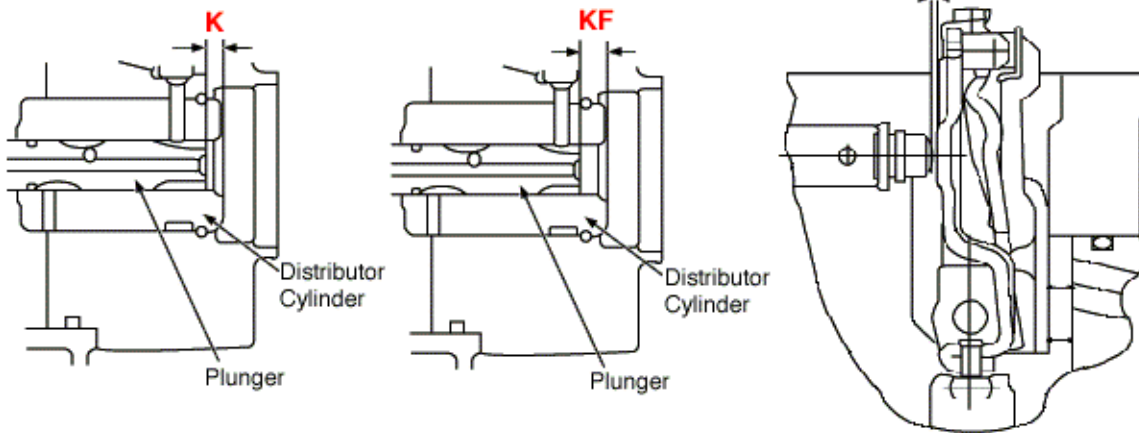
Assy P/N: 196000-1100

Manu P/N: 22100-5C340

K: 3.4-3.6

KF: 7.0-7.2

MS: -



Remarks

Assy P/N: 096490-1560

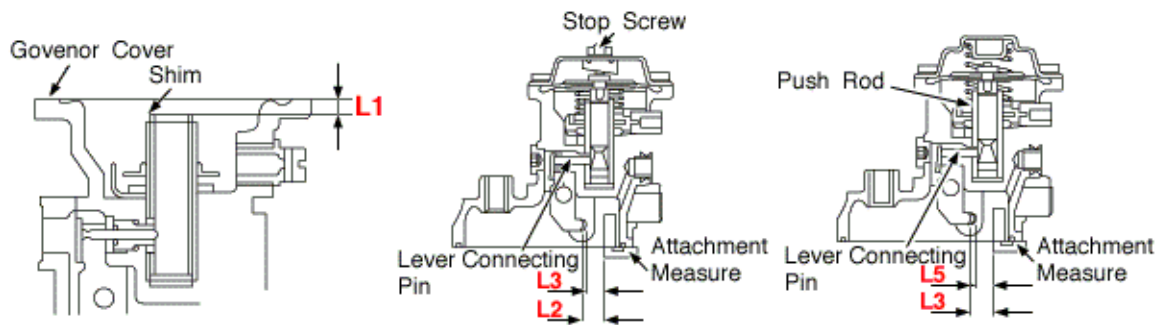
Manu P/N: 22540-5C340

L1: -

L2: 10.46-10.56

L3: -

L5: -



Remarks