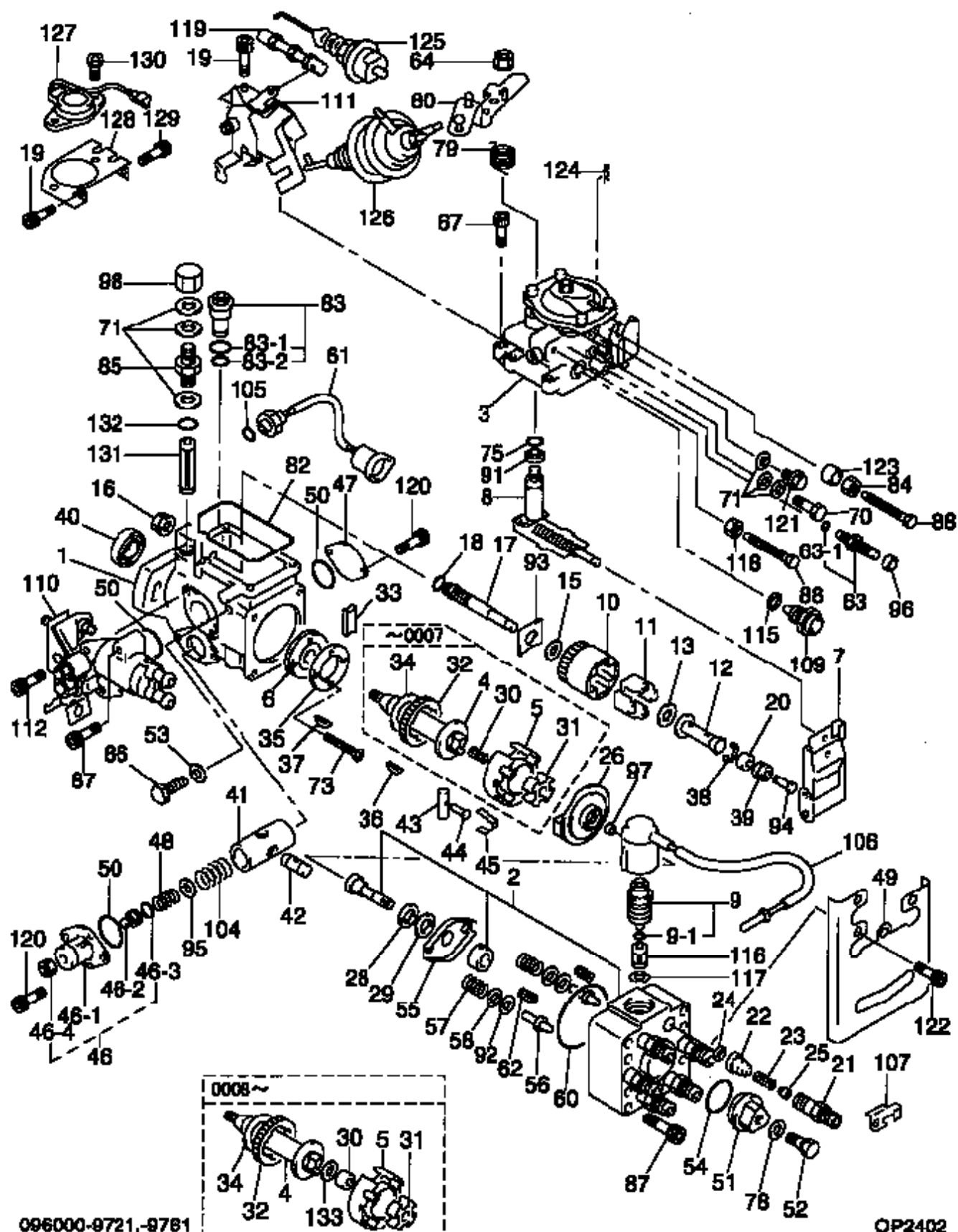




Parts List

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Compo. P/N: 096000-9761

Assy P/N: 096000-9761

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		0	PUMP ASSY, INJECTI	096000-9761	22100-17880	01				
		1	HOUSING SUB-ASSY,	096110-1110	22101-17840	01				
		2	HEAD SUB-ASSY, DIS	096400-1521	22140-17840	01			9602	
		2	HEAD SUB-ASSY, DIS	096400-1700	22140-17841	01	B	9603		
		3	COMPENSATOR SUB-AS	096490-1280	22540-17840	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	096180-0280	22108-17840	01				
		6	PUMP SUB-ASSY, FUE	096140-0030	22505-54010	01				
		7	GOVERNOR ASSY, TOR	096270-1280	22350-17840	01				
		8	SHAFT SUB-ASSY, SP	096460-1670	22302-17840	01				
		9	SOLENOID ASSY, FUE	096030-0430	22390-17840	01			9702	FCV,12V
		9	SOLENOID ASSY, FUE	096030-0520	22390-6A511	01	B	9702		FCV,12V
		9-1	O-RING	096049-0350		01				ID15.3
		10	HOLDER SUB-ASSY, F	096260-0050	22741-54020	01				
S		11	FLYWEIGHT, DISTRIB	096263-0040	22745-56350	04				
		12	SLEEVE, GOVERNOR	096252-1552	22316-17880	1C				D0.45
		12	SLEEVE, GOVERNOR	096252-1562	22316-17881	1C				D0.5
		12	SLEEVE, GOVERNOR	096252-1641	22316-1B120	1C				D0.55
S		13	WASHER, FLYWEIGHT	096265-0030	22753-54020	01				ROUND TYPE
S		15	WASHER, FLYWEIGHT	096265-0020	22753-54010	1C				T1.30
S		15	WASHER, FLYWEIGHT	096265-0050		1C				T1.32
S		15	WASHER, FLYWEIGHT	096265-0060		1C				T1.28
		16	NUT, GOVERNOR SHAF	096254-0050	22722-54470	01				M10,L SCREW
		17	SHAFT SUB-ASSY, GO	096250-0030	22380-54020	01				
		18	O-RING	949140-2930	90099-14049	01				ID 8
		19	BOLT, SOCKET	096449-0110	22395-56351	03				M6,L16
		20	RING, GOVERNOR SLE	096255-0020	22147-54290	01				
		21	HOLDER, DELIVERY V	096425-0190	22131-17420	06				
		22	VALVE SUB-ASSY, DI	096420-0720	22104-17840	06				
S		23	SPRING, DELIVERY V	096427-0050	22148-5B250	06				
		24	GASKET, DELIVERY V	096426-0070	22149-56351	06				
		25	SEAT, DELIVERY VAL	096428-0010	22141-54010	06				
S		26	CAMPLATE SUB-ASSY,	096230-0391	22130-17840	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

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Compo. P/N: 096000-9761

Assy P/N: 096000-9761

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
S		39	BEARING, BALL	949100-2860	90099-10148	01				OD8
S		40	SEAL, OIL	096039-0040	22544-64740	01				
		41	PISTON ASSY, TIMER	096190-1161	22550-17840	01				
		42	SUB-PISTON, TIMER	096213-0020	22657-54010	01				
		43	PIN, TIMER SLIDE	096205-0060	22655-17840	01				
		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				ID 8.8
		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	096208-1491	22615-17550	1C				K0.2,PINK
		48	SPRING, TIMER, OUT	096208-1501	22615-17551	1C				K0.22,BLUE
		48	SPRING, TIMER, OUT	096208-1511	22615-17552	1C				K0.18,GREEN
		48	SPRING, TIMER, OUT	096208-1850	22615-17840	1C				K0.24,YELLOW
		49	BRACKET SUB-ASSY,	096471-0740	22601-17840	01				
		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	076300-2010	83180-60070	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	ID5
		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
		70	SCREW SUB-ASSY, OV	096020-0260	22160-17840	01				
		71	WASHER, AIR BLEEDE	090241-0010	22119-77020	06				T1.6
		73	SCREW, COUNTERSUNK	949002-0420	90099-00723	02				M4,L28
		75	O-RING	096049-0300	22193-54770	01				ID 6.5
		78	GASKET, DELIVERY V	096426-0060	22149-56350	01				FOR HEAD PLUG
		79	SPRING, RETURN	096444-1301	22322-17840	01				
		80	LEVER SUB-ASSY, AD	096435-5220	22701-17850	1C				MARK 522

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S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		80	LEVER SUB-ASSY, AD	096435-5230	22701-17851	1C				MARK 523
		80	LEVER SUB-ASSY, AD	096435-5240	22701-17852	1C				MARK 524
		82	GASKET, GOVERNOR C	096446-0100	22774-54270	01				
S		83	VALVE SUB-ASSY, RE	096160-0300	22180-17840	01				
		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		ID7.5
		84	NUT, LOCK	096342-0010	22775-77121	01				M6,L5
		85	SCREW, OVERFLOW	096021-0190	22569-17140	01				FOR INLET
		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	02				M6,L62
		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	096248-0130		2C				T1.7
		92	SHIM, PLUNGER SPRI	096248-0140		2C				T1.9
		92	SHIM, PLUNGER SPRI	096248-0150		2C				T2.1
		92	SHIM, PLUNGER SPRI	096248-0170		2C				T0.85
		92	SHIM, PLUNGER SPRI	096248-0180		2C				T0.95
		92	SHIM, PLUNGER SPRI	096248-0190		2C				T1.05
		92	SHIM, PLUNGER SPRI	096248-0200		2C				T1.15
		92	SHIM, PLUNGER SPRI	096248-0210		2C				T1.25
		92	SHIM, PLUNGER SPRI	096248-0220		2C				T1.6
		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

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S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		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	096256-0991	22787-17842	1C				T2.1
		94	PLUG, GOVERNOR SLE	096256-1001		1C				T2.2
		94	PLUG, GOVERNOR SLE	096256-1011		1C				T2.3
		94	PLUG, GOVERNOR SLE	096256-1021		1C				T2.4
		94	PLUG, GOVERNOR SLE	096256-1031	22787-17843	1C				T2.5
		94	PLUG, GOVERNOR SLE	096256-1041		1C				T2.6
		94	PLUG, GOVERNOR SLE	096256-1051		1C				T2.7
		94	PLUG, GOVERNOR SLE	096256-1061		1C				T2.8
		94	PLUG, GOVERNOR SLE	096256-1071	22787-17844	1C				T2.9
		94	PLUG, GOVERNOR SLE	096256-1081		1C				T3.0
		94	PLUG, GOVERNOR SLE	096256-1091		1C				T3.1
		94	PLUG, GOVERNOR SLE	096256-1101		1C				T3.2
		94	PLUG, GOVERNOR SLE	096256-1111	22787-17845	1C				T3.3
		94	PLUG, GOVERNOR SLE	096256-1121		1C				T3.4
		94	PLUG, GOVERNOR SLE	096256-1131		1C				T3.5
		94	PLUG, GOVERNOR SLE	096256-1141		1C				T3.6
		94	PLUG, GOVERNOR SLE	096256-1151	22787-17846	1C				T3.7
		94	PLUG, GOVERNOR SLE	096256-1161		1C				T3.8
		94	PLUG, GOVERNOR SLE	096256-1171		1C				T3.9
		94	PLUG, GOVERNOR SLE	096256-1181		1C				T4.0
		94	PLUG, GOVERNOR SLE	096256-1191	22787-17847	1C				T4.1
		94	PLUG, GOVERNOR SLE	096256-1201		1C				T4.2
		94	PLUG, GOVERNOR SLE	096256-1211		1C				T4.3
		94	PLUG, GOVERNOR SLE	096256-1221		1C				T4.5
		94	PLUG, GOVERNOR SLE	096256-1231	22787-17848	1C				T4.6
		94	PLUG, GOVERNOR SLE	096256-1241		1C				T4.7
		94	PLUG, GOVERNOR SLE	096256-1251		1C				T4.8
		94	PLUG, GOVERNOR SLE	096256-1261		1C				T4.9
		94	PLUG, GOVERNOR SLE	096256-1271	22787-17849	1C				T5.0
		94	PLUG, GOVERNOR SLE	096256-1281		1C				T5.1
		94	PLUG, GOVERNOR SLE	096256-1291		1C				T5.2
		94	PLUG, GOVERNOR SLE	096256-1301		1C				T5.3
		95	WASHER, TIMER SENS	096214-0190	22625-17540	01			9609	
		95	WASHER, TIMER SENS	096214-0260		01	B	9610		
		96	COLLAR, SMOKE SET	096448-0111	22749-56350	01				ID7.9,L8
		97	SHIM, PLUNGER ADJU	096406-0020	22179-54010	1C				T1.9(*1)
		97	SHIM, PLUNGER ADJU	096406-0510	22179-17049	1C				T2.88
		97	SHIM, PLUNGER ADJU	096406-0580	22179-17055	1C				T3.2

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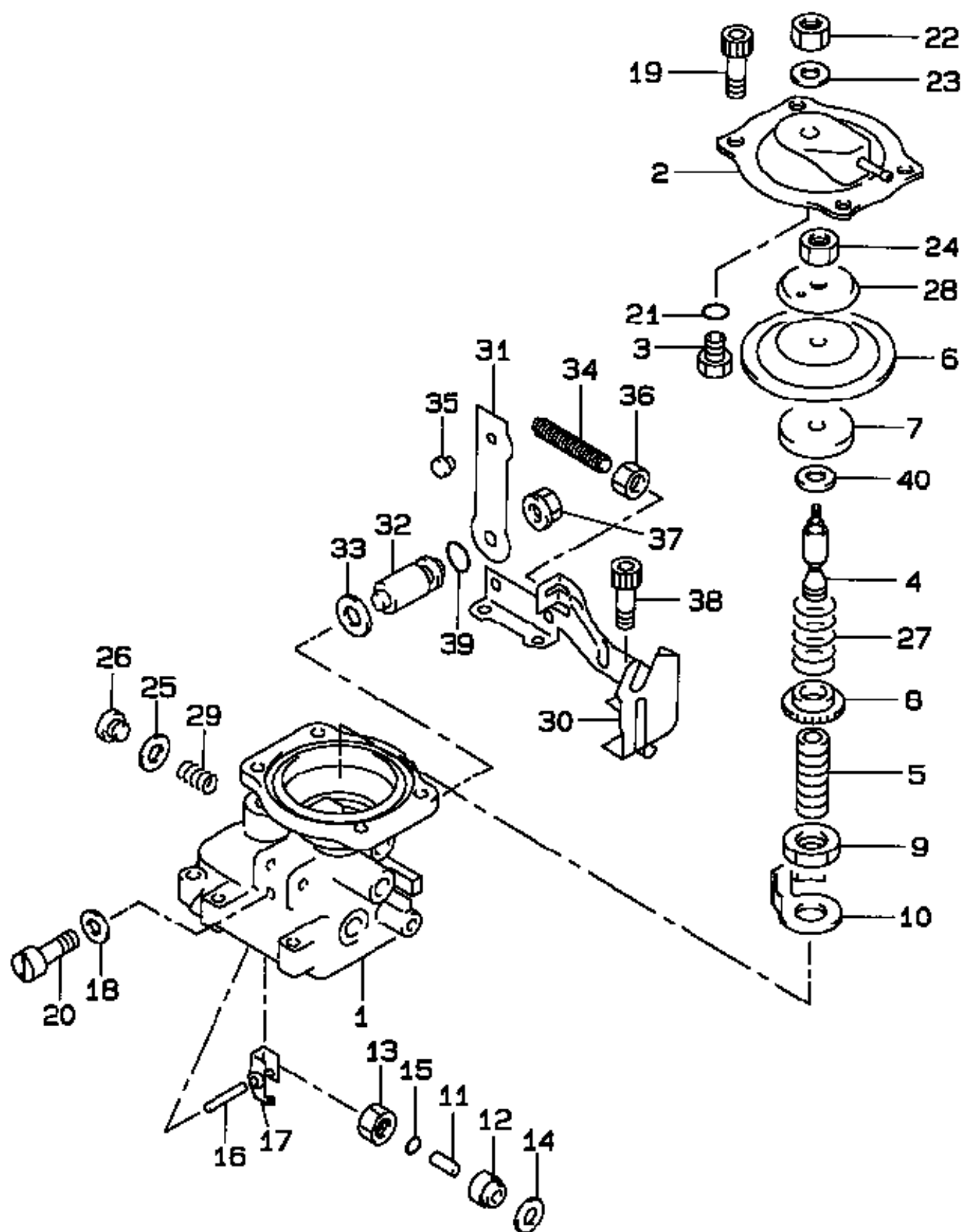
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S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		97	SHIM, PLUNGER ADJU	096406-0750	22179-17069	1C				T2.23
		97	SHIM, PLUNGER ADJU	096406-0910	22179-17146	1C				T2.55
		98	NUT, CAP	949055-0300	90099-05161	01				M12
		104	SPRING, TIMER, OUT	096208-1830	22615-17841	01				
		105	O-RING	096049-0190	22193-64750	01				ID14.8
		106	WIRE SUB-ASSY	096045-0690	22751-17470	01				
		107	CLIP, CONNECTOR SU	096029-0950	22172-6A330	01				
		109	BODY, REGULATE VAL	096161-0160	22180-17140	01				
		110	COVER SUB-ASSY, TI	096210-1021	22790-17840	01				
		111	IDLE UP SUB-ASSY	096470-0491	22305-17840	01				
		112	BOLT, SOCKET	096449-0100	22395-56352	02				M6,L10
		115	WASHER, COPPER PLA	949018-1580	90099-01533	1C				T1
		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	NUT, HEXAGON	90166-06051	90092-10608	01				M6,L5
		119	ROD SUB-ASSY	096464-0050	22331-58490	01				
		120	BOLT, SOCKET	096449-0280	22395-17840	04				
		121	SCREW, OVERFLOW	096021-0090	22569-67050	01				
		122	BOLT, SOCKET	096449-0210	22395-17250	04				
		123	COLLAR, SMOKE SET	096448-0320	22749-17250	01				
		124	PIN, LEVER CONECTI	096455-0070	22338-54410	01				NOMNAL DIA.4.0
		125	ACTUATOR SET, IDLE	096472-0930	26133-17842	01				
		126	ACTUATOR SET, IDLE	096472-0921	26133-17841	01				
		127	SENSOR, ROTARY POS	198500-5021	89452-36010	01				
		128	BRACKET, IDLE UP	096438-2780	22178-17840	01				
		129	BOLT, SOCKET	096449-0220	22395-5B320	02				
		130	SCREW, W/WASHER	91370-04121	93315-14012	02				M4,L12
S		131	FILTER, SUB-ASSY	096530-0111	22602-5B320	01		9701		
		132	O-RING	096049-0460	22193-5B320	01		9701		ID6.5
		133	WASHER	096064-0220	22689-5B170	01		0008		T1.8



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S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		0	COMPENSATOR SUB-AS	096490-1280	22540-17840	01				
		1	COVER SUB-ASSY, GO	096440-1480	22703-67040	01				
		2	COVER SUB-ASSY, GO	096440-1320	22703-17140	01				
		3	STOPPER, TIMER SLI	096216-0030	22658-64518	01				
		4	R0D, PUSH	096465-0920	22321-17840	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				ID4
		16	PIN, LEVER SUPPORT	096272-0040	22526-54120	01				
		17	LEVER SUB-ASSY, CO	096295-0070	22308-54120	01			9805	
		17	LEVER SUB-ASSY, CO	096295-0670		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				M10
		23	WASHER, PLATE	90200-08211	90093-00802	01				T1
		24	NUT, HEXAGON	90176-06361	90092-20608	01				
		25	WASHER, AIR BLEEDE	090241-0010	22119-77020	01			9703	T1.6
		25	GASKET, DELIVERY V	096426-0120	22149-54800	01	C	9704		
		26	PLUG, SCREW	090317-0240	22129-55110	01				
		27	SPRING, BOOST COMP	096492-0140	22546-64520	1C				K3.8
		27	SPRING, BOOST COMP	096492-0310	22546-67040	1C				K2.7
		27	SPRING, BOOST COMP	096492-0580	22546-67050	1C				K3.3
		27	SPRING, BOOST COMP	096492-0590	22546-67041	1C				K3.0
		27	SPRING, BOOST COMP	096492-0600	22546-67051	1C				K3.6
		27	SPRING, BOOST COMP	096492-0630	22546-17840	1C				K3.5
		27	SPRING, BOOST COMP	096492-0640	22546-6D480	1C				K3.2
		28	WASHER, THRUST	192633-0010	22549-17140	01				
		29	SPRING	096466-0090	22327-55030	01				
		30	BRACKET SUB-ASSY,	096471-0721	22178-17841	01				
		31	LEVER, THROTTLE	096453-0471	22568-17840	1C				ANGLE 34.0
		31	LEVER, THROTTLE	096453-0481	22568-17841	1C				ANGLE 37.5
		31	LEVER, THROTTLE	096453-0491	22568-17842	1C				ANGLE 30.5
		32	SHAFT SUB-ASSY, AD	096451-0770	22504-17840	01				
		33	WASHER, GOVERNOR T	096273-0140	22378-64010	01				T0.5
		34	SCREW, LEVER STOP	092664-0290	26118-17840	01				
		35	BUSHING	096117-0600	22791-17250	01				

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Parts List

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Compo. P/N: 096490-1280

Assy P/N: 096000-9761

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		36	NUT, HEXAGON	90166-06051	90092-10608	01				M6,L5
		37	NUT	949056-1680	90179-06009	01				M6
		38	BOLT, SOCKET	096449-0210	22395-17250	03				
		39	O-RING	096049-0300	22193-54770	01				ID 6.5
		40	SHIM, BOOST COMPEN	096493-0010	22547-54260	1C			9703	T1.9
		40	SHIM, BOOST COMPEN	096493-0020	22547-54261	1C			9703	T2.1
		40	SHIM, BOOST COMPEN	096493-0030	22547-54262	1C			9703	T2.3
		40	SHIM, BOOST COMPEN	096493-0040	22547-54263	1C			9703	T2.5
		40	SHIM, BOOST COMPEN	096493-0050	22547-54264	1C			9703	T2.7
		40	SHIM, BOOST COMPEN	096493-0060	22547-54268	1C			9703	T2.9
		40	SHIM, BOOST COMPEN	096493-0070	22547-64360	1C			9703	T3.1
		40	SHIM, BOOST COMPEN	096493-0080	22547-64361	1C			9703	T3.3
		40	SHIM, BOOST COMPEN	096493-0090	22547-54490	1C			9703	T1.1
		40	SHIM, BOOST COMPEN	096493-0100	22547-54265	1C			9703	T1.3
		40	SHIM, BOOST COMPEN	096493-0110	22547-54266	1C			9703	T1.5
		40	SHIM, BOOST COMPEN	096493-0120	22547-54267	1C			9703	T1.7
		40	SHIM, BOOST COMPEN	096493-0210	22547-54491	1C			9703	T0.3
		40	SHIM, BOOST COMPEN	096493-0220	22547-54492	1C			9703	T0.5
		40	SHIM, BOOST COMPEN	096493-0230	22547-54493	1C			9703	T0.7
		40	SHIM, BOOST COMPEN	096493-0240	22547-54494	1C			9703	T0.9

INJECTION PUMP TEST SPECIFICATIONS

096000-9760

MANUFACTURER	TOYOTA	INJECTION PUMP		096000-976# VE6/12F2000RND976	
ENGINE TYPE	1HD-FT				
VEHICLE MODEL	LAND CRUISER	ROTATION	Clockwise viewed from drive side	GOVERNOR TYPE	Maximum-minimum speed
RATED VOLTAGE	12V	INJECTION ORDER	A - B - C - D - E - F	INJECTION INTERVAL	60° ± 30'
Dimension KF (mm)	7.10 ± 0.10		Dimension MS (mm)	2.07 ± 0.05	
Dimension K (mm)	3.50 ± 0.10		Dimension PS (mm)	0.50 ± 0.02	

1. TEST CONDITIONS

Nozzle	093400-0540 (DN12SD12A)	Feed Pressure	19.6 kPa (0.2 kgf/cm ²)
Nozzle Opening Pressure	14.7 ± 0.5 MPa (150 ± 5 kgf/cm ²)	High Pressure Pipe	Ø2 X Ø6 X 840 mm
Test Oil	SAE J967 (ISO4113)	Fuel Temperature	40 - 45 °C (104 - 113°F)

NOTE : Apply 6 volts DC across the fuel cut solenoid during adjustment.

2. PRE-ADJUSTMENT

	Lever Position (deg)	Pump Speed (rpm)	Boost Pressure		Fuel Delivery		Max. Spread in Delivery	
			(kPa)	(mmHg)	(mm ³ /st)	(cc/200st)	(mm ³)	(cc)
Full Load	26 ± 5°	1080	121.0	910	78.6 ± 4.0	15.7 ± 0.8	8.0	1.6
High Speed	(Full position)	2200	121.0	910	25.0 ± 5.0	5.0 ± 1.0	—	—

3. ADJUSTMENT OF INTERNAL PRESSURE

Lever Position	Pump Speed (rpm)	Boost Pressure		Internal Pressure		Remarks
		(kPa)	(mmHg)	(kPa)	(kgf/cm ²)	
Full	1080	121.0	910	More than 402.1	More than 4.1	By the regulating valve
	1800	121.0	910	843.4 ± 29.4	8.6 ± 0.3	

4. OVERFLOW QUANTITY CHECK

Lever Position	Pump Speed (rpm)	Boost Pressure		Overflow Quantity		Remarks
		(kPa)	(mmHg)	(L/h)	(cc/1000st)	
Full	1800	121.0	910	78 - 117	718 - 1079	

NOTE : The overflow valve belonging to the pump should be used checking.

5. ADJUSTMENT OF TIMER

Lever Position	Pump Speed (rpm)	Boost Pressure		Piston Travel (mm)	Remarks
		(kPa)	(mmHg)		
Full	1080	121.0	910	0.72 ± 0.50	Max. piston travel
	1440	121.0	910	3.33 ± 0.50	
	1800	121.0	910	5.94 ± 0.50	
	—	121.0	910	8.20 ± 0.50	

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

6. ADJUSTMENT OF BOOST COMPENSATOR

Lever Position	Pump Speed (rpm)	Boost Pressure		Fuel Delivery		Max. Spread in Delivery		Remarks
		(kPa)	(mmHg)	(mm ³ /st)	(cc/200st)	(mm ³)	(cc)	
Full	720	121.0	910	75.9 ± 2.7 = A	15.2 ± 0.5 = A	—	—	
	720	0	0	39.1 ± 1.8	7.8 ± 0.4	—	—	
	720	41.3	310	43.1 ± 2.8	8.6 ± 0.6	—	—	
	720	80.0	600	67.1 ± 4.3	13.4 ± 0.9	—	—	
	720	111.0	830	More than (A – 1.5)	More than (A – 0.3)	—	—	

7. ADJUSTMENT OF FUEL DELIVERY

Lever Position	Pump Speed (rpm)	Boost Pressure		Fuel Delivery		Max. Spread in Delivery		Remarks
		(kPa)	(mmHg)	(mm ³ /st)	(cc/200st)	(mm ³)	(cc)	
Full	1080	121.0	910	78.6 ± 4.0	15.7 ± 0.8	8.0	1.6	By full load setting screw
	2200	121.0	910	25.0 ± 5.0	5.0 ± 1.0	—	—	By max. speed setting screw
Idle	2100	121.0	910	approx. 69.0	approx. 13.8	—	—	
	2200	121.0	910	Less than 5.0	Less than 1.0	—	—	
Full	100	41.3	310	approx. 88.0	approx. 17.6	—	—	By governor sleeve plug
	400	41.3	310	46.5 ± 5.7	9.3 ± 1.1	—	—	
	500	41.3	310	44.8 ± 3.2	9.0 ± 0.6	—	—	
	720	80.0	600	67.1 ± 4.3	13.4 ± 0.9	—	—	
	1800	121.0	910	approx. 88.7 = B	approx. 17.7 = B	—	—	
	1440	121.0	910	C	C	—	—	C = Measurement

8. SETTING OF LOAD SENSING TIMER

Lever Position	Pump Speed (rpm)	Boost Pressure		Fuel Delivery		Remarks
		(kPa)	(mmHg)	(mm ³ /st)	(cc/200st)	
Start of Load Sensing	1800	121.0	910	Less than (B – 5.0)	Less than (B – 1.0)	By governor shaft
End of Pressure Drop	1440	121.0	910	(C – 19.0) ± 5.0	(C – 3.8) ± 1.0	Check
Check Points	1. Change of Piston Travel : 1.27 ± 0.50 mm (Pump speed 1440 rpm) 2. Dimension of Governor Shaft : L = 1.15 ± 0.85 mm					

9. SETTING OF ADJUSTING LEVER AT LOW SPEED

Lever Position (deg)	Pump Speed (rpm)	Boost Pressure (kPa)	Fuel Delivery		Max. Spread in Delivery		Remarks
			(mm ³ /st)	(cc/500st)	(mm ³)	(cc)	
17 ± 5° (Idle position)	350	41.3 (310 mmHg)	4.5 ± 1.0	2.3 ± 0.5	2.5	1.3	Lever setting

10. SETTING OF ADJUSTING LEVER AT PARTIAL RANGE

— : Not Applicable

Pump Speed (rpm)	Boost Pressure		Fuel Delivery		Remarks
	(kPa)	(mmHg)	(mm ³ /st)	(cc/500st)	
—	—	—	—	—	—

11. CHARACTERISTIC OF A.C.S.D.

Lever Position	Pump Speed (rpm)	Boost Pressure		Measuring Value	Remarks
		(kPa)	(mmHg)		
Idle	350	41.3	310	1.25 ± 0.1 mm	Piston Travel
	350	41.3	310	0 mm ³ /st	Idle-up Quantity (0 cc/500st)

Fuel temperature : 39 - 41°C

12. ADJUSTMENT OF T.C.V.

— : Not Applicable

Lever Position	Pump Speed (rpm)	Boost Pressure		Piston Travel (mm)	Remarks
		(kPa)	(mmHg)		
—	—	—	—	—	—

13. SETTING OF DIAPHRAGM FOR HEATER & POWER STEERING

Boost Pressure : 41.3 kPa (310 mmHg)

Pump Speed (rpm)	Vacuum Pressure		Fuel Delivery		Remarks
	(kPa)	(mmHg)	(mm ³ /st)	(cc/500st)	
350	- 46.7	- 350	8.5 ± 1.0	4.3 ± 0.5	PS Idle up (No. 1 Actuator), Make ACSD free
410	- 46.7	- 350	6.7 ± 1.0	3.4 ± 0.5	A/C Idle up (No. 1 & No. 2 Actuator), Make ACSD free

14. ADJUSTMENT OF POWER CONTROL

Lever Position	Pump Speed (rpm)	Boost Pressure		Fuel Delivery		Remarks
		(kPa)	(mmHg)	(mm ³ /st)	(cc/200st)	
Full	100	41.3	310	60.0 ± 3.5	12.0 ± 0.7	By PCS lever stopper

15. ADJUSTMENT OF THROTTLE POSITION SENSOR

— : Not Applicable

Lever Position	Pump Speed (rpm)	Boost Pressure		Fuel Delivery		Sensor Output Voltage (V)	Remarks
		(kPa)	(mmHg)	(mm ³ /st)	(cc/500st)		
—	—	—	—	—	—	—	—

16. FINAL CHECK AFTER ADJUSTMENT

- 1 . Range of lever angle between idle and full lever position is $43 \pm 5^\circ$.
- 2 . Resistance of pick-up tachometer must be 810 ± 160 ohms.
- 3 . A/T throttle lever setting (fig. 1)
 - (1) Set lever at low speed along the test specification.
 - (2) Idle position adjustment of A/T throttle lever without ACSD operation. Set the adjusting lever at idle position, and adjust the length of connecting rod to get specified gap (A) between A/T throttle lever and stopper of bracket. (A : 2.0 ± 0.1 mm)
 - (3) ACSD adjustment & Idle-up adjustment.
- 4 . Power control lever should be push toward the distributor head, in order to set the system inoperative while adjustment.(fig. 2)

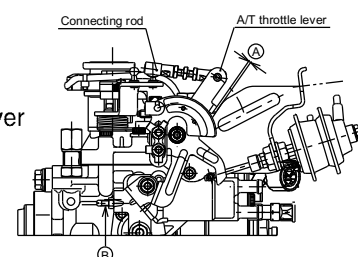


fig. 1

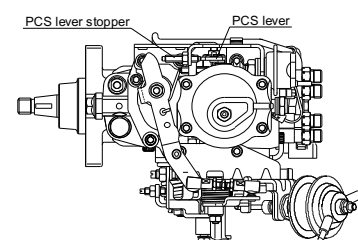


fig. 2

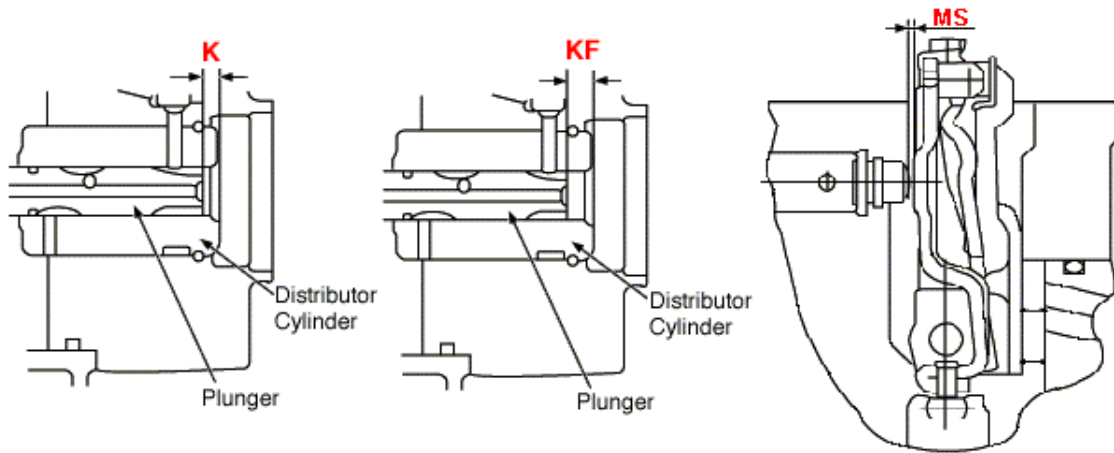
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Manu P/N: 22100-17880

K: 3.4-3.6

KF: 7.0-7.2

MS: -



Remarks

Assy P/N: 096490-1280

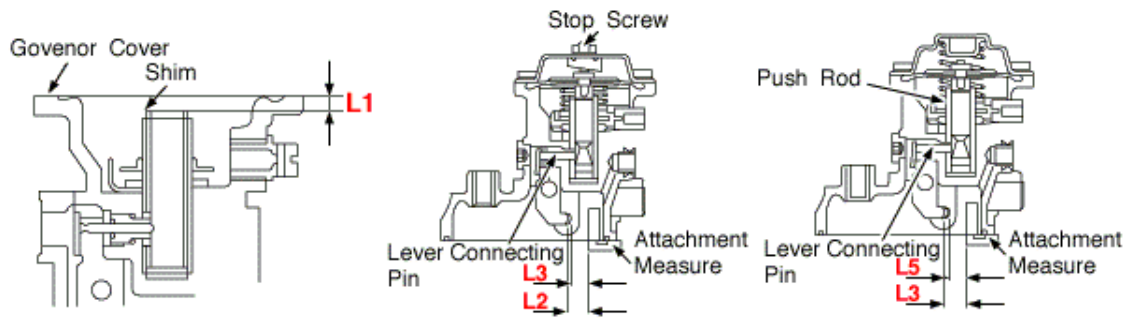
Manu P/N: 22540-17840

L1: -

L2: 10.98-11.08

L3: -

L5: -



Remarks