

Parts List

Compo. P/N: 096500-0101

Assy P/N: 096500-0101

S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		0	PUMP ASSY, INJECTI	096500-0101	22100-5B302	01	B	9311		
*		1	HOUSING SUB-ASSY,	096110-1000		01			9310	NO SUPPLY
		1	HOUSING SUB-ASSY,	096110-1060		01	D	9311		+(62)=A
		2	HEAD SUB-ASSY, SPI	096541-1310		01			9212	*1
		2	HEAD SUB-ASSY, SPI	096541-1470		01	D	9212	9412	*1
		2	HEAD SUB-ASSY, SPI	096541-1471		01	B	9501		
		3	SENSOR ASSY, CRANK	029600-0021	89284-30031	01				NE SENSOR
		3-1	O-RING	90801-20210		01			9607	ID20.8
		3-1	O-RING	029475-0080	90099-14142	01	B	9608		ID20.8
		4	SHAFT SUB-ASSY, DR	096120-0054		01				
S		5	RING SUB-ASSY, ROL	096180-0140		01				
		6	COVER SUB-ASSY, GO	096440-0651		01			9401	
		6	COVER SUB-ASSY, GO	096440-1520		01	B	9401	9412	
		6	COVER, GOVERNOR	096441-1501		01	B	9501		
		7	VALVE ASSY, SPILL	096600-0033	23032-54020	01				SPV
		8	COVER, TIMER	096218-0040	22612-54020	01				
S		10	PLUG, DISTRIBUTIVE	096417-0080	22176-54641	01			9212	*1
S		10	PLUG, DISTRIBUTIVE	096417-0130	22176-5B302	01	D	9212		*1
		12	NUT, CAP	949055-0300	90099-05161	01				M12
		13	BOLT, SOCKET	096449-0110	22395-56351	04				M6,L16
		14	HOLDER, DELIVERY V	096425-0100	22131-5B250	04				
S		15	SPRING, DELIVERY V	096427-0050	22148-5B250	04				
		16	VALVE SUB-ASSY, DI	096420-0370	22104-5B250	04				
		17	GASKET, DELIVERY V	096426-0070	22149-56351	04				
		18	SEAT, DELIVERY VAL	096428-0010	22141-54010	04				
S		19	CAMPLATE SUB-ASSY,	096230-0100	22130-5B010	01				
S		20	PLATE, PLUNGER, LW	096245-0020	22163-54010	01				
S		21	PLATE, PLUNGER, UP	096244-0040	22162-54010	01				
		22	SPRING, COUPLING	096224-0040	22659-64150	01				
		23	COUPLING	096222-0020	22632-54010	01				
S		24	FILTER, SUB-ASSY	096530-0041		01			9501	
S		24	FILTER, SUB-ASSY	096530-0100	22602-54581	01	A	9502		
		25	WASHER, DRIVE SHAF	096125-0010	22161-54010	01				
S		26	COVER, FEED PUMP	096147-0052	22511-58650	01				
		27	KEY, WOODRUFF	949130-0260	90099-13017	01				
		28	NUT, HEXAGON	949050-4840		01				
		29	WASHER	096064-0091	22689-5B302	01			9501	DISCONTINUED
S		30	SEAL, OIL	096039-0040	22544-64740	01				
		31	PISTON, TIMER	096201-0540		01				
		32	SUB-PISTON, TIMER	096213-0020	22657-54010	01				
		33	PIN, TIMER SLIDE	096205-0020	22655-54010	01				
		34	STOPPER, TIMER SLI	096216-0020	22658-54010	01			9510	
		34	STOPPER, TIMER SLI	096216-0120	22658-17840	01	A	9510	9801	L16.4
		34	STOPPER, TIMER SLI	096216-0140		01	D	9802		L16.0

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S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
		35	CLIP, TIMER	096211-0050	22656-54010	01			9510	
		35	CLIP, TIMER	096211-0080	22656-17840	01	A	9510	9801	L/ DITCH
		35	CLIP, TIMER	096211-0090		01	D	9802		W/ DITCH
		36	COVER, TIMER	096218-0270	22612-56350	01				
		37	O-RING	096049-0030	22193-64010	01			9212	D 8.5 *1
		37	O-RING	096049-0330	22193-5B302	01	D	9212		D14.4 *1
		38	O-RING	949140-2960	90099-14051	02			9310	ID26.3
		38	O-RING	949140-5820	90099-14105	02	B	9311		ID26.3
S		39	PLUG, DISTRIBUTIVE	096417-0070	22176-54640	01				
		41	COLLAR, SMOKE SET	096448-0311		01			9211	L17.1
		41	COLLAR, SMOKE SET	096448-0312		01	B	9211		L18.6
		42	O-RING	949140-2970	90099-14052	01			9906	ID30
		42	O-RING	096049-0510	22193-54772	01	A	9906		ID30
S		43	SHEET, PLUNGER SPR	096247-0010	22145-54010	01				
		44	GUIDE SUB-ASSY, PL	096237-0010	22192-54010	02				
		45	SPRING, PLUNGER	096236-0040	22144-54190	02				K10
		46	SHEET, PLUNGER SPR	096246-0010	22143-54010	02				
		48	BRACKET, IDLE UP	096438-1140		01				
		49	O-RING	949140-2980	90099-14053	01				ID60
		50	O-RING	096049-0220	22193-5B303	01				ID 28.2
		51	BOLT, SOCKET	096449-0020	22395-54010	04				M6,L35
		53	SCREW SUB-ASSY, OV	096020-0060	22160-54271	01				
		54	WASHER, AIR BLEEDE	090241-0010	22119-77020	05				T1.6
		56	SCREW, COUNTERSUNK	949002-0420	90099-00723	02				M4,L28
		58	GASKET, GOVERNOR C	096446-0100	22774-54270	01				*2
		59	SCREW, HOLLOW	949180-0770	90099-18022	01				M12,L43.5
		61	BOLT, SOCKET	096449-0070	22395-58200	04				M6,L45
S		62	VALVE SUB-ASSY, RE	096160-0061	22180-54270	01			9310	
S		62	VALVE SUB-ASSY, RE	096160-0290		01	D	9311		+(1)=A
		62-1	O-RING	096049-0180	22193-54561	01				ID10
		62-2	O-RING	949140-2920	90099-14080	01			9607	ID7.5
		62-2	O-RING	096049-0500		01	A	9607		ID7.5
		63	PUMP SUB-ASSY, FUE	096140-0030	22505-54010	01				
		64	SHIM, PLUNGER SPRI	096248-0010	22182-54010	2C				T0.5
		64	SHIM, PLUNGER SPRI	096248-0020	22183-54010	2C				T0.8
		64	SHIM, PLUNGER SPRI	096248-0030	22184-54010	2C				T1.0
		64	SHIM, PLUNGER SPRI	096248-0040	22185-54010	2C				T1.2
		64	SHIM, PLUNGER SPRI	096248-0050	22186-54010	2C				T1.5
		64	SHIM, PLUNGER SPRI	096248-0060	22187-54010	2C				T1.8
		64	SHIM, PLUNGER SPRI	096248-0070	22188-54010	2C				T2.0
		64	SHIM, PLUNGER SPRI	096248-0080	22182-17010	2C				T0.9
		64	SHIM, PLUNGER SPRI	096248-0090	22182-17011	2C				T1.1
		64	SHIM, PLUNGER SPRI	096248-0100	22182-17012	2C				T1.3
		64	SHIM, PLUNGER SPRI	096248-0110	22182-17013	2C				T1.4

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S	M	Illust.No.	Part Name	DENSO P/N	Manu. P/N	QTY	I/C	Start	End	Remarks
65			SHIM, PLUNGER ADJU	096406-0020	22179-54010	1C				T1.9
65			SHIM, PLUNGER ADJU	096406-0030	22179-17010	1C				T1.92
65			SHIM, PLUNGER ADJU	096406-0040	22179-17011	1C				T1.94
65			SHIM, PLUNGER ADJU	096406-0050	22179-17012	1C				T1.96
65			SHIM, PLUNGER ADJU	096406-0060	22179-17013	1C				T1.98
65			SHIM, PLUNGER ADJU	096406-0070	22179-54011	1C				T2.0
65			SHIM, PLUNGER ADJU	096406-0080	22179-17014	1C				T2.02
65			SHIM, PLUNGER ADJU	096406-0090	22179-17015	1C				T2.04
65			SHIM, PLUNGER ADJU	096406-0100	22179-17016	1C				T2.06
65			SHIM, PLUNGER ADJU	096406-0110	22179-17017	1C				T2.08
65			SHIM, PLUNGER ADJU	096406-0120	22179-54012	1C				T2.1
65			SHIM, PLUNGER ADJU	096406-0130	22179-17018	1C				T2.12
65			SHIM, PLUNGER ADJU	096406-0140	22179-17019	1C				T2.14
65			SHIM, PLUNGER ADJU	096406-0150	22179-17020	1C				T2.16
65			SHIM, PLUNGER ADJU	096406-0160	22179-17021	1C				T2.18
65			SHIM, PLUNGER ADJU	096406-0170	22179-54013	1C				T2.2
65			SHIM, PLUNGER ADJU	096406-0180	22179-17022	1C				T2.22
65			SHIM, PLUNGER ADJU	096406-0190	22179-17023	1C				T2.24
65			SHIM, PLUNGER ADJU	096406-0200	22179-17024	1C				T2.26
65			SHIM, PLUNGER ADJU	096406-0210	22179-17025	1C				T2.28
65			SHIM, PLUNGER ADJU	096406-0220	22179-54014	1C				T2.3
65			SHIM, PLUNGER ADJU	096406-0230	22179-17026	1C				T2.32
65			SHIM, PLUNGER ADJU	096406-0240	22179-17027	1C				T2.34
65			SHIM, PLUNGER ADJU	096406-0250	22179-17028	1C				T2.36
65			SHIM, PLUNGER ADJU	096406-0260	22179-17029	1C				T2.38
65			SHIM, PLUNGER ADJU	096406-0270	22179-54015	1C				T2.4
65			SHIM, PLUNGER ADJU	096406-0280	22179-17030	1C				T2.42
65			SHIM, PLUNGER ADJU	096406-0290	22179-17031	1C				T2.44
65			SHIM, PLUNGER ADJU	096406-0300	22179-17032	1C				T2.46
65			SHIM, PLUNGER ADJU	096406-0310	22179-17033	1C				T2.48
65			SHIM, PLUNGER ADJU	096406-0320	22179-54016	1C				T2.5
65			SHIM, PLUNGER ADJU	096406-0330	22179-17034	1C				T2.52
65			SHIM, PLUNGER ADJU	096406-0340	22179-17035	1C				T2.54
65			SHIM, PLUNGER ADJU	096406-0350	22179-17036	1C				T2.56
65			SHIM, PLUNGER ADJU	096406-0360	22179-17037	1C				T2.58
65			SHIM, PLUNGER ADJU	096406-0370	22179-54017	1C				T2.6
65			SHIM, PLUNGER ADJU	096406-0380	22179-17038	1C				T2.62
65			SHIM, PLUNGER ADJU	096406-0390	22179-17039	1C				T2.64
65			SHIM, PLUNGER ADJU	096406-0400	22179-17040	1C				T2.66
65			SHIM, PLUNGER ADJU	096406-0410	22179-17041	1C				T2.68
65			SHIM, PLUNGER ADJU	096406-0420	22179-54018	1C				T2.7
65			SHIM, PLUNGER ADJU	096406-0430	22179-17042	1C				T2.72
65			SHIM, PLUNGER ADJU	096406-0440	22179-17043	1C				T2.74
65			SHIM, PLUNGER ADJU	096406-0450	22179-17044	1C				T2.76

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		65	SHIM, PLUNGER ADJU	096406-0460	22179-17045	1C				T2.78
		65	SHIM, PLUNGER ADJU	096406-0490	22179-17047	1C				T2.84
		65	SHIM, PLUNGER ADJU	096406-0520	22179-54020	1C				T2.9
		66	BOLT SUB-ASSY	096523-0013		01				
		68	KEY, WOODRUFF	949130-0300	90099-13018	01				
		69	SPRING, TIMER, OUT	096208-0450		01				
		70	SCREW, W/WASHER	949007-5490		04				
		71	VALVE ASSY, TIMING	096360-0220	23010-54030	01				
		71-1	O-RING	096049-0070		01				ID23.5
		72	BOLT, SOCKET	096449-0190	22395-54640	05			9403	M6,L12
		72	BOLT, SOCKET	096449-0100	22395-56352	05	B	9404		M6,L10
		73	CLIP, CONNECTOR SU	096029-1203	22172-5B300	01				
		74	WASHER, TIMER SENS	096214-0030	22625-54270	1C				T0.1
		74	WASHER, TIMER SENS	096214-0040	22625-54271	1C				T0.2
		74	WASHER, TIMER SENS	096214-0050	22625-54272	1C				T0.5
		74	WASHER, TIMER SENS	096214-0060	22625-54273	1C				T0.6
		74	WASHER, TIMER SENS	096214-0070	22625-54274	1C				T0.7
		74	WASHER, TIMER SENS	096214-0080	22625-54275	1C				T0.8
		74	WASHER, TIMER SENS	096214-0090	22625-54276	1C				T0.9
		74	WASHER, TIMER SENS	096214-0100	22625-54277	1C				T1.0
		76	RESISTOR ASSY, PUM	096525-0011		1C				243 OHM
		76	RESISTOR ASSY, PUM	096525-0021		1C				267 OHM
		76	RESISTOR ASSY, PUM	096525-0031		1C				294 OHM
		76	RESISTOR ASSY, PUM	096525-0041		1C				316 OHM
		76	RESISTOR ASSY, PUM	096525-0051		1C				348 OHM
		76	RESISTOR ASSY, PUM	096525-0061		1C				384 OHM
		76	RESISTOR ASSY, PUM	096525-0071		1C				412 OHM
		76	RESISTOR ASSY, PUM	096525-0081		1C				453 OHM
		76	RESISTOR ASSY, PUM	096525-0091		1C				487 OHM
		76	RESISTOR ASSY, PUM	096525-0101		1C				523 OHM
		76	RESISTOR ASSY, PUM	096525-0111		1C				576 OHM
		76	RESISTOR ASSY, PUM	096525-0121		1C				619 OHM
		76	RESISTOR ASSY, PUM	096525-0131		1C				681 OHM
		76	RESISTOR ASSY, PUM	096525-0141		1C				732 OHM
		76	RESISTOR ASSY, PUM	096525-0151		1C				787 OHM
		76	RESISTOR ASSY, PUM	096525-0161		1C				866 OHM
		76	RESISTOR ASSY, PUM	096525-0171		1C				931 OHM
		76	RESISTOR ASSY, PUM	096525-0181		1C				1020 OHM
		76	RESISTOR ASSY, PUM	096525-0191		1C				1100 OHM
		76	RESISTOR ASSY, PUM	096525-0201		1C				1210 OHM
		76	RESISTOR ASSY, PUM	096525-0211		1C				1330 OHM
		76	RESISTOR ASSY, PUM	096525-0221		1C				1430 OHM
		76	RESISTOR ASSY, PUM	096525-0230		1C				68 OHM
		76	RESISTOR ASSY, PUM	096525-0240		1C				85 OHM

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		76	RESISTOR ASSY, PUM	096525-0250		1C				100 OHM
		76	RESISTOR ASSY, PUM	096525-0260		1C				121 OHM
		76	RESISTOR ASSY, PUM	096525-0270		1C				133 OHM
		76	RESISTOR ASSY, PUM	096525-0280		1C				154 OHM
		76	RESISTOR ASSY, PUM	096525-0290		1C				174 OHM
		76	RESISTOR ASSY, PUM	096525-0300		1C				196 OHM
		76	RESISTOR ASSY, PUM	096525-0310		1C				221 OHM
		77	RESISTOR ASSY, PUM	096526-0012		1C				154 OHM
		77	RESISTOR ASSY, PUM	096526-0022		1C				174 OHM
		77	RESISTOR ASSY, PUM	096526-0032		1C				196 OHM
		77	RESISTOR ASSY, PUM	096526-0042		1C				221 OHM
		77	RESISTOR ASSY, PUM	096526-0052		1C				243 OHM
		77	RESISTOR ASSY, PUM	096526-0062		1C				267 OHM
		77	RESISTOR ASSY, PUM	096526-0072		1C				294 OHM
		77	RESISTOR ASSY, PUM	096526-0082		1C				316 OHM
		77	RESISTOR ASSY, PUM	096526-0092		1C				348 OHM
		77	RESISTOR ASSY, PUM	096526-0102		1C				383 OHM
		77	RESISTOR ASSY, PUM	096526-0112		1C				412 OHM
		77	RESISTOR ASSY, PUM	096526-0122		1C				453 OHM
		77	RESISTOR ASSY, PUM	096526-0132		1C				487 OHM
		77	RESISTOR ASSY, PUM	096526-0142		1C				523 OHM
		77	RESISTOR ASSY, PUM	096526-0152		1C				576 OHM
		77	RESISTOR ASSY, PUM	096526-0162		1C				619 OHM
		77	RESISTOR ASSY, PUM	096526-0172		1C				681 OHM
		77	RESISTOR ASSY, PUM	096526-0182		1C				732 OHM
		77	RESISTOR ASSY, PUM	096526-0192		1C				787 OHM
		77	RESISTOR ASSY, PUM	096526-0202		1C				866 OHM
		77	RESISTOR ASSY, PUM	096526-0212		1C				931 OHM
		77	RESISTOR ASSY, PUM	096526-0222		1C				1020 OHM
		77	RESISTOR ASSY, PUM	096526-0232		1C				1100 OHM
		77	RESISTOR ASSY, PUM	096526-0242		1C				1210 OHM
		77	RESISTOR ASSY, PUM	096526-0252		1C				1330 OHM
		77	RESISTOR ASSY, PUM	096526-0262		1C				1430 OHM
		77	RESISTOR ASSY, PUM	096526-0272		1C				1580 OHM
		77	RESISTOR ASSY, PUM	096526-0282		1C				1780 OHM
		77	RESISTOR ASSY, PUM	096526-0292		1C				1960 OHM
		77	RESISTOR ASSY, PUM	096526-0302		1C				2210 OHM
		77	RESISTOR ASSY, PUM	096526-0312		1C				2490 OHM

INJECTION PUMP TEST SPECIFICATIONS



096500-0101

INJECTION PUMP	096500-010# (VE4/10E2200RND010)	Governor	Electronical control
		Timer	Electronical control
MANUFACTURER	TOYOTA	Rated Voltage	14 V
ENGINE TYPE	2L-TE	Rotation	Clockwise viewed from drive side
VEHICLE MODEL	CROWN / LAND CRUISER / HILUX	Injection Order	A - B - C - D
Pump Select Switch No. (ECD Controller)	3	Injection Interval	90°

1. TEST CONDITIONS

1) Nozzle	093400-0540 (DN12SD12A)	4) Feed Pressure	0.2 kgf/cm ²
2) Nozzle Opening Pressure	150 ± 1 kgf/cm ²	5) High Pressure Pipe	Ø2 × Ø6 × 840 mm
3) Test Oil	SAE J967 (ISO4113)	6) Fuel Temperature	40 - 43 °C (104 - 109.4 °F)

2. BREAK-IN DRIVE

Pump Speed (rpm)	ECD CONTROLLER SETTING				Condition	Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch		
1200	—	580	—	—	No fuel leaks, no abnormal noise, and no abnormal temperature rising.	Drive more than 5 minutes.

3. INSPECTION OF FUEL TEMPERATURE SENSOR

Pump Speed (rpm)	ECD CONTROLLER SETTING				Sensor Resistance (kΩ)	Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch		
—	FUEL TEMPERATURE	—	—	—	—	—

4. INSPECTION OF Ne SENSOR

Pump Speed (rpm)	ECD CONTROLLER SETTING				Sensor Output Voltage (V)	Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch		
100	Np	—	—	—	0.1 or more	

5. ADJUSTMENT OF PUMP INTERNAL PRESSURE

Pump Speed (rpm)	ECD CONTROLLER SETTING				Internal Pressure (kgf/cm ²)	Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch		
2000	—	4DB	0	—	8.1 - 8.4	By the regulating valve
1200	—	580	0	—	6.8 - 7.6	

6. OVERFLOW QUANTITY CHECK

Pump Speed (rpm)	ECD CONTROLLER SETTING				Overflow Quantity (cc/1000st)	Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch		
2000	—	4DB	0	—	150 - 250	The overflow valve belonging to the pump should be used for checking.

7. ADJUSTMENT OF TIMER

Pump Speed (rpm)	ECD CONTROLLER SETTING				Timer Stroke (mm)	Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch		
2000	—	4DB	0	—	10.30 ± 0.40	Select shim
1200	—	580	0	—	9.00 or more	
1200	—	580	30	—	5.40 ± 1.00	
1200	—	580	60	—	1.50 ± 0.90	
1200	—	580	100	—	0	
200	—	6E0	0	—	3.60 or more	

8. ADJUSTMENT OF FUEL DELIVERY

Pump Speed (rpm)	ECD CONTROLLER SETTING				Fuel Delivery (cc/200st-cyl.)	Max. Spread In Delivery (cc)	Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch			
350	—	55E	0	—	2.4 - 2.8	0.5	By replacing θ correction resistor
2000	—	4DB	0	—	12.6 - 13.2	0.7	By adjusting screw
1200	—	580	0	—	13.8 - 14.6	0.6	
2400	—	2A4	0	—	3.8 - 6.8	—	
100	—	6E0	0	—	13.6 - 16.0	1.4	
600	—	5C5	0	—	10.6 - 16.0	0.7	
850	—	517	0	—	6.8 - 7.2	—	
1900	—	170	0	—	2.0 or less	—	
2450	—	16C	0	—	4.8 or less	—	

 θ Correction Resistor

Resistance Value (k Ω)	Mark (Last 3 Digits)	Parts No.	Resistance Value (k Ω)	Mark (Last 3 Digits)	Parts No.
0.154	001	096526-0011	0.681	017	096526-0171
0.174	002	096526-0021	0.732	018	096526-0181
0.196	003	096526-0031	0.782	019	096526-0191
0.221	004	096526-0041	0.866	020	096526-0201
0.243	005	096526-0051	0.931	021	096526-0211
0.267	006	096526-0061	1.020	022	096526-0221
0.294	007	096526-0071	1.100	023	096526-0231
0.316	008	096526-0081	1.210	024	096526-0241
0.348	009	096526-0091	1.330	025	096526-0251
0.383	010	096526-0101	1.430	026	096526-0261
0.412	011	096526-0111	1.580	027	096526-0270
0.453	012	096526-0121	1.780	028	096526-0281
0.487	013	096526-0131	1.960	029	096526-0291
0.523	014	096526-0141	2.210	030	096526-0301
0.576	015	096526-0151	2.490	031	096526-0311
0.619	016	096526-0161			

NOTE :

When the resistance value of θ correction resistor is raised by 1 level, the injection quantity is increased as follows, 0.08 cc/200st (pump speed at 350 rpm), 0.12 cc/200st (pump speed at 1000 rpm).

9. INSPECTION OF FUEL CUT SOLENOID

Pump Speed (rpm)	ECD CONTROLLER SETTING				Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch	
—	—	—	—	—	—

10. ADJUSTMENT OF CAM ANGLE

Pump Speed (rpm)	ECD CONTROLLER SETTING				Cam Angle (°)	Remarks
	Display Selector	Injection Quantity Command	Duty Ratio Command	FCV Switch		
350	CAM ANGLE	55E	100	—	Shown in display	

Adjustment :

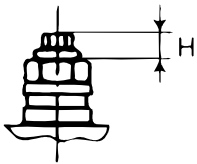
Select the cam angle correction resistor (τ) so that the difference between the cam angle shown on display and CA in the table below is -0.5 to 0.5.

CA (°)	τ Correction Resistor Parts No.	Resistance Value (k Ω)	CA (°)	τ Correction Resistor Parts No.	Resistance Value (k Ω)
2.68	096525-0230	0.068	5.93	096525-0081	0.453
3.07	096525-0240	0.085	6.09	096525-0091	0.487
3.30	096525-0250	0.100	6.32	096525-0101	0.523
3.42	096525-0260	0.121	6.49	096525-0111	0.576
3.64	096525-0270	0.133	6.72	096525-0121	0.619
3.83	096525-0280	0.154	6.89	096525-0131	0.681
4.03	096525-0290	0.174	7.06	096525-0141	0.732
4.24	096525-0300	0.196	7.23	096525-0151	0.787
4.42	096525-0310	0.221	7.28	096525-0161	0.866
4.61	096525-0011	0.243	7.54	096525-0171	0.931
4.80	096525-0021	0.267	7.66	096525-0181	1.020
4.95	096525-0031	0.294	7.82	096525-0191	1.100
5.16	096525-0041	0.316	8.03	096525-0201	1.210
5.38	096525-0051	0.348	8.23	096525-0211	1.330
5.54	096525-0061	0.384	8.37	096525-0221	1.430
5.76	096525-0071	0.412			

11. SERVICE STANDARD

Dimension KF (mm) : 5.90 ± 0.10	Drive Shaft Diameter (mm) : Ø20
Dimension K (mm) : 3.30 ± 0.10	Delivery Valve Holder Installation Torque (kgf•m) : 6.0 ± 0.5
Timing mark re-marking position : Based on cylinder A, cam lift distance (plunger) should be 0.39 mm	

12. NOTES FOR ADJUSTMENT

	Keep the height of the SPV screw (shown in the figure) at 3.0 - 5.2 mm.
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