

<div>조 정 데 이 터</div> <div>INJ. PUMP CALIBRATION DATA</div>				Ass'y No. : 1 0 4 7 4 5 - 9 9 8 0		
				E/G Type : NEW J2		
Drawing No. : 96 - 04 - 01				A kind of car: WIDE BONGO J2		
General Ass'y No. : KP - VE4/10F2075LNP1691				Company : KIA MOTORS		
Pre- Stroke :				Date : 96. 04. 16.		
Pump rotation :				Counter clockwise(viewed from Drive side)		
1. Test Conditions						
1-1	Nozzle : 105780-0000(KP-DN12SD12T)			1-4	Injection pipe : 2mm × 6mm × 840mm	
1-2	Nozzle holder : 105780-2080			1-5	Fuel oil temperature : 45±5 °C	
1-3	Nozzle opening pressure : 150±5 Kg/cm ²			1-6	Supply pump pressure : 0.2 Kg/cm ²	
2. Setting		Pump speed (r/min)	Settings	Charge air press (mmHg)	Difference in delivery	
2-1	Timing device travel	1,200	2.9 ± 0.2 mm		2.5	
2-2	Supply pump pressure	1,200	4.5 ± 0.3 Kg/cm ²			
2-3	Full load delivery	1,200	54.5 ± 1.0 cc/1000st			
2-4	Idle speed regulation	385	11.5 ± 2.0 cc/1000st		2.5	
2-5	Start	100	65.0 ~ 85.0 cc/1000st			
2-6	Full load speed regulation	2,375	23.0 ± 2.0 cc/1000st			
2-7	Load- timer Adjustment	1,200	Q=44.5 ± 1.0cc/1000st T=2.5 ± 0.2 mm		4.0	
3. Test Specifications		Charge air press				
3-1	Timing device	N = r/min mm	700 0.4 ± 0.4	1200 2.9 ± 0.2	2075 7.4 ± 0.4	
3-2	Supply pump	N = r/min Kg/cm ²	700 2.8 ± 0.3	1200 4.5 ± 0.3	2075 7.7 ± 0.3	
3-3	Overflow delivery	N = r/min	1,200	cc/1000st	(Measure)	
3-4	Fuel injection quantities					
Speed control lever position		Pump speed (r/min)	Fuel delivery (cc/1000st)	Charge air press (mmHg)	4. Dimensions	
Full- load speed		500	51.5 ± 2.0		K	3.3 ± 0.1
		1,200	54.5 ± 1.0		KF	5.9 ± 0.1
		2,075	46.0 ± 2.0		MS	1.0 ± 0.1
		2,500	10.0 이하		BCS	
					Control lever angle	
Switch OFF Magnet valve		100	M/V OFF Q=0		α	20° ± 4°
Idling		600	Below 5.0		A	mm
					β	35° ± 5°
3-5	Solenoid valve	Max. cut-in voltage		8 V	B	mm
		Test voltage		12 ~ 14V		
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※ Load timer adjustment.

1. Adjust the governor shaft so that the clearance between the end of the flange and the end of the governor shaft is approximately 3mm and then lock the nut.

2. Load timer adjustment.

(1) Fix the control lever in the position satisfying the following conditions:

Boost Pressure :

Pump speed : 1,200 r/min

Fuel injection quantity : 44.5 ± 1.0 cc/1000st

(2) With the control lever positioned as described in (1) above adjust the governor sleeve so that the timer reduction value (ΔT) conforms to the specified values (item 2-7)

$T = 17 \sim 22$ N·m (1.7 ~ 2.2 Kg·m)

3. Confirmation of Timer Characteristics.

Fix the control lever in the position satisfying the following conditions and confirm the timer stroke.

Control lever position			Specified Values	
Pump speed (r/min)	Fuel injection q'ty (cc/1000st)	Boost pressure (mmHg)	Timer stroke (mm)	Timer reduction value (mm)
1,250	54.5 ± 1.0		2.9 ± 0.2	--
	44.5 ± 1.0		2.5 ± 0.2	$\Delta TA = 4$
	35.0 ± 1.0		(Measure)	
385	11.5 ± 2.0		0	--