조 정 데 이 터

INJ. PUMP CALIBRATION DATA

Ass'y No. : **104780-7050**

ENG. Type : T-2 H/All A/T

A kind of car : Grace

Drawing No. : 97 - 01 - 09 - 04

Company : HYUNDAI MOTORS

General Ass'y No. : KP-VE4/10F2100RNP....

Date : 1997. 01. 09.

Pre - Stroke :

Pump rotation: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℃
1-3	Nozzle opening pressure : 150+5 Kgf/㎠	1-6	Supply pump pressure : 0.2 Kgf/㎠

2. Setting

		Pump speed (r/min)	Settings	Charge air pressure(mmHg)	Difference in delivery
2-1	Timing device travel	1,100	3.2±0.2 mm		
2-2	Supply pump pressure	1,100	4.7±0.3 Kgf/㎠		
2-3	Full load delivery(FULL)	1,100	50.1±1.0 cc/1000st		3.0
2-4	Idle speed regulation	425	11.0±2.0 cc/1000st		2.0
2-5	Start	100	55.0~75.0 cc/1000st		
2-6	Full load speed regulation	2,350	10.0±3.0 cc/1000st		
2-7	Load-timer Adjustment	1,100	42.0±1.0 cc/1000st		
			T = 2.3±0.2 mm		

3. Test Specifications

			Charge air pressure(mmHg)				
3-1	Timing device	N = r/min	600	800	1,100	1,750	2,000
		mm	0.9±0.4	1.8±0.4	3.2±0.2	6.2±0.4	7.3±0.4
3-2	Supply pump	N = r/min	600		1,100		2,000
		Kgf/㎠	3.4±0.3		4.7±0.3		6.9±0.3
3-3	Overflow delivery	N = r/min	1,100	cc/1000st	400±130	BCS Pressure	
3-4	Fuel injection quantities						

Speed control lever position	Pump speed (r/min)	Fuel delivery (cc/1000st)	Charge air pressure (mmHg)
Full - load speed	500	43.1±1.6	
	900	44.6±2.0	
	1,100	50.1±1.0	
	1,750	42.7±2.0	
	2,000	40.2±1.6	
Switch OFF Magnet valve	100	M/V OFF Q = 0	
Idling stop	800	Below 5.0	

3-5	Solenoid valve	Max. cut-in voltage	8 V
		Test voltage	12 ~ 14 V

4.Dimensions

K	3.3±0.1
KF	5.8±0.1
MS	1.0±0.1
BCS	

Control lever angle

α	22。± 4。
A	mm
β	31。± 5。
B	mm

DPICO

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Ass'y No. : 104780 - 7020, 7030, 7040, 7050

※ 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	:	1,100	r/min
Fuel injection quantity	:	42.0±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 (△T) conforms to the specified values (item 2-7)

T = 17～22 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)
	50.1±1.0		3.2±0.2	
1,100	42.0±1.0		2.3±0.2	(0.9)
	30.0±1.0		0.8±0.4	(2.4)
425	11.0±2.0		0	

※ Potentiometer adjustment

Pump speed (r/min)	Control lever position	Fuel injection Q'ty(cc/1000st)	In-put voltage	Out-put voltage	Remark
-	Idling	-	10V	1.3±0.3 V	Adjusting point
-	Full speed	-	10V	(6.0±0.6) V	Check point

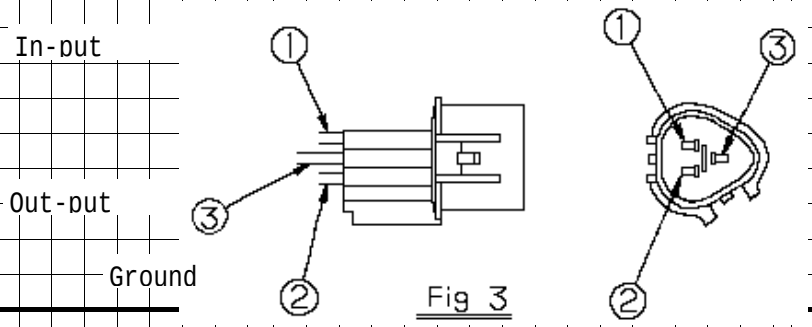

Fig 3

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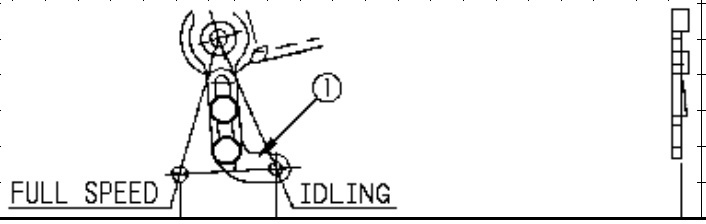
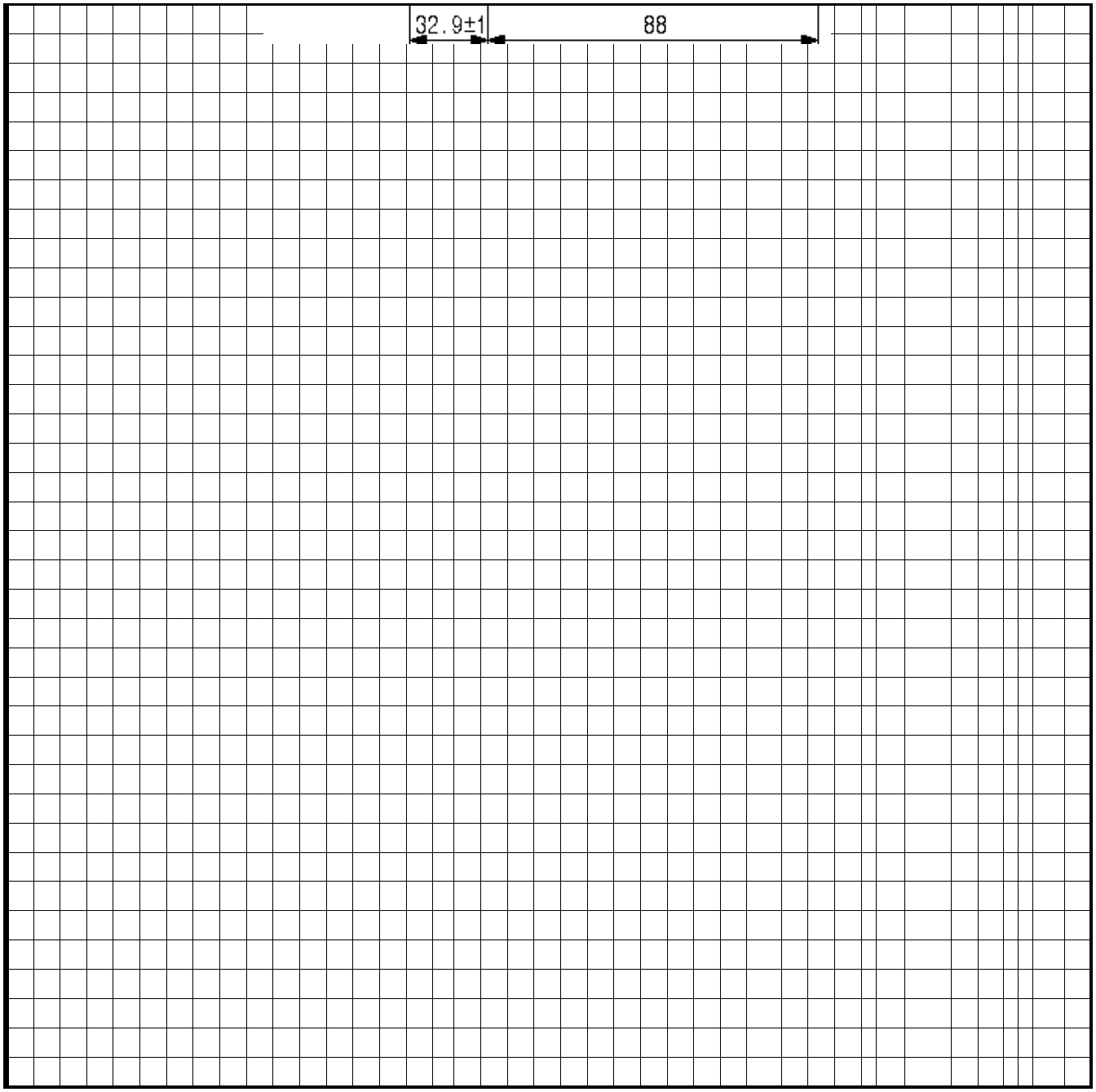
※ Accelator link stroke adjustment.

Adjust the accelator link's stroke(32.9±1 mm) between the idling and full speed position as shown as below.




32.9±1
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