

INJECTION PUMP TEST SPECIFICATIONS

092000-1351

INJECTION PUMP	092000-135# (ND-PES6NB120C321RND135)	MANU-FACTURER	VOLVO
GOVERNOR	091300-515# (R901)	ENGINE TYPE	D6A250
TIMER	091800-362# (SB1)	VEHICLE MODEL	TRUCK

1.INJECTION TIMING

- | | | | |
|-----------------------|------------------------------------|---------------------------|--------------------|
| 1) Rotation | : Clockwise viewed from drive side | 4) Pre-stroke | : 3.25 – 3.35 mm |
| 2) Injection Order | : 1 – 5 – 3 – 6 – 2 – 4 | 5) Tappet Clearance | : More than 0.2 mm |
| 3) Injection Interval | : 60° ± 30' | 6) Locked Timing Location | : — |

2.ADJUSTMENT OF DELIVERY QUANTITY

Test Conditions

- | | | | |
|----------------------------|---------------------------------|-----------------------|-----------------------------|
| 1) Nozzle | : 093400 – 0540
(DN12SD12A) | 4) Feed Pressure | : 2.0 kgf/cm ² |
| 2) Nozzle Opening Pressure | : 175 – 180 kgf/cm ² | 5) High Pressure Pipe | : ø2 x ø6 x 600 mm |
| 3) Test Oil | : SAE J967 (ISO4113) | 6) Fuel Temperature | : 40 – 45 °C (104 – 113 °F) |

Pump Speed (rpm)	Rack Travel (mm)	Number of Strokes	Delivery Quantity (cc/cyl.)	Max. Spread in Delivery (cc)	Remarks
1200	14.0	200	32.0 – 33.2	1.4	
780	13.0	200	32.2 – 33.4	1.6	
335	8.5	500	3.5 – 5.0	1.5	

Overflow valve opening : 2.6 kgf/cm²

3.ADJUSTMENT OF GOVERNOR...Refer to the right side of this sheet.

4.ADJUSTMENT OF PUMP WITH GOVERNOR OPERATION

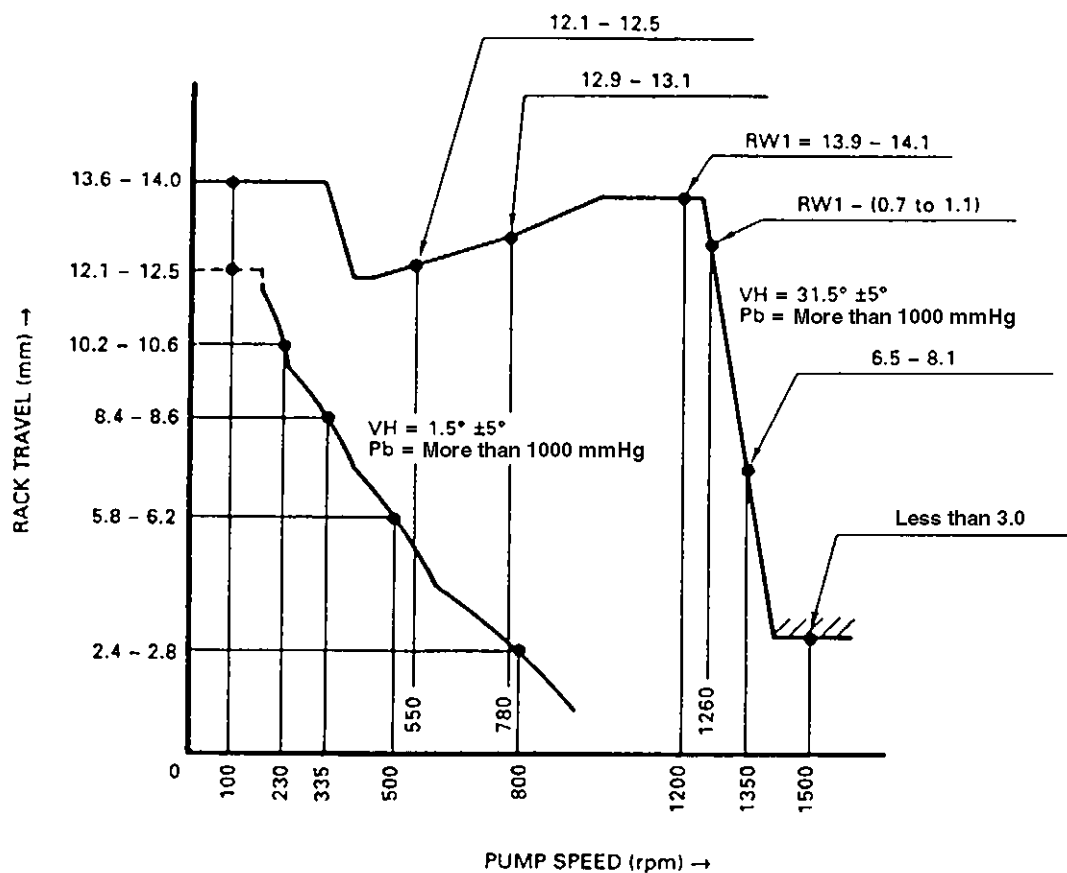
Lever Position (deg)	Pump Speed (rpm)	Number of Strokes	Delivery Quantity (cc/cyl.)	Remarks
FULL	780 1200 780	1000 1000 1000	161.0 – 167.0 160.0 – 166.0 95.0 – 101.0	Pb = More than 1000 mmHg Pb = More than 1000 mmHg Pb = 0 mmHg
IDLE	335	1000	6.0 – 10.0	

5. ADJUSTMENT OF TIMER

N.A. : Not Applicable

Pump Speed (rpm)	810 – 1070					
Advance Angle (deg)	3.0					

Control Speed Range : 335 – 1200 rpm

**6. ADJUSTMENT OF BOOST COMPENSATOR (Full lever position)**

Positive pressure must drop from 1000 mmHg to 980 mmHg in more than 10 seconds.

Pump Speed (rpm)	Boost Pressure (mmHg)	RW (mm)	Delivery Quantity (cc/200st)
780	0	RW2 = Measurement = Approx. 11.0	19.0 – 20.2
780	295	RW2 + (0.1 – 0.3)	—
780	465	RW2 + (0.75 – 1.25)	—
780	1000	RW3	—
400	0	RW2 – (1.3 – 1.7)	—
100	0	10.7 – 11.1	—

NOTE:

- (1) Adjusting Lever Angle
Setting position 0° to be at vertical position.
- (2) Stop Lever Operation
Rack travel must be less than 2.0 mm when the stop lever is pulled at pump speed 0 rpm.
- (3) Temporary Adjustment of Stop Cam
L1 = 23.50 mm L2 = 23.50 mm L3 = 33.20 mm