

INJECTION PUMP TEST SPECIFICATIONS

093000-4111

INJECTION PUMP	093000-411# (ND-PES4A75B321RND411)	MANU-FACTURER	MITSUBISHI
GOVERNOR	190800-009# (RU)	ENGINE TYPE	4D30
TIMER	091800-325# (SCZ)	VEHICLE MODEL	CANTER

1.INJECTION TIMING

1) Rotation	: Clockwise viewed from drive side	4) Pre-stroke	: 1.9 – 2.0 mm
2) Injection Order	: 1 – 3 – 4 – 2	5) Tappet Clearance	: More than 0.2 mm
3) Injection Interval	: 90° ± 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 – 185 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
900	9.1	200	9.7 – 10.3	0.4	
1400	9.1	200	10.6 – 11.4	0.6	
300	5.1	500	3.0 – 4.0	1.0	

Overflow valve opening : — 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	900	1000	49.0 – 51.0	
	1400	1000	53.0 – 57.0	

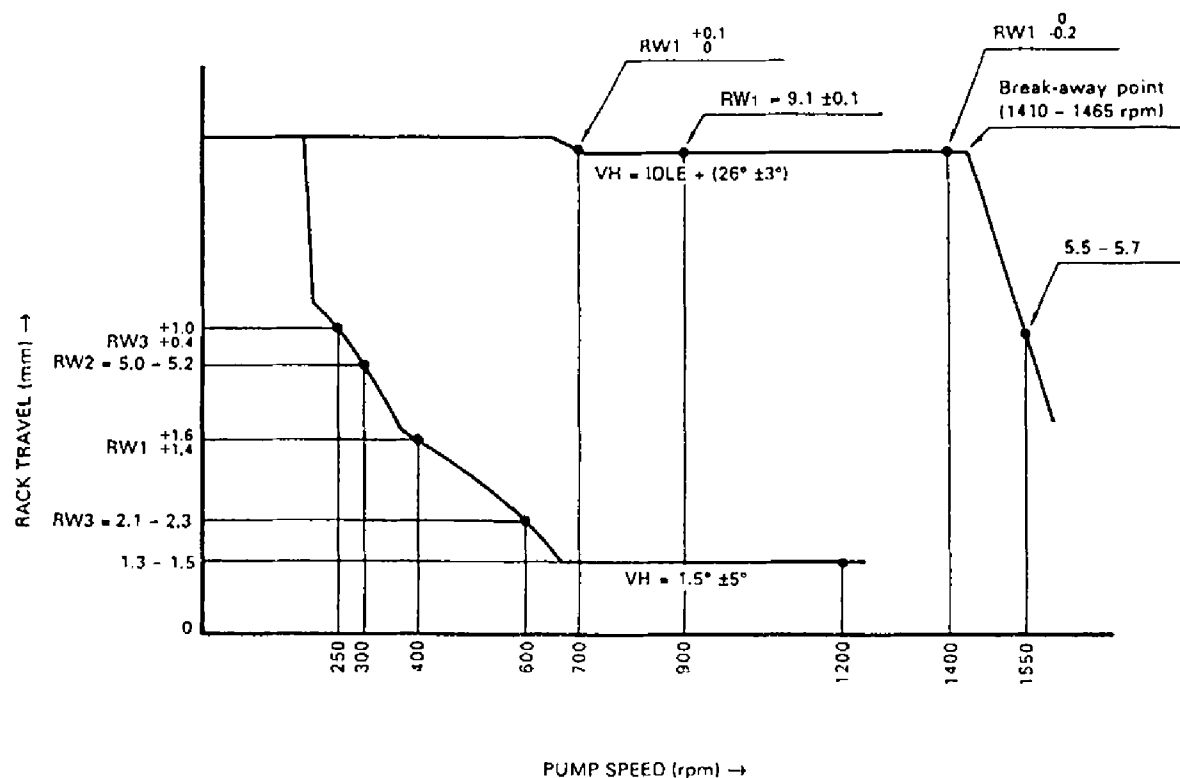
5. ADJUSTMENT OF TIMER N.A. : Not Applicable

Pump Speed (rpm)	600 – 1750					
Advance Angle (deg)	7.2					

3. ADJUSTMENT OF GOVERNOR

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Control Speed Range : 300 – 1400 rpm



6. ADJUSTMENT OF BOOST COMPENSATOR (Full lever position)

Pump Speed (rpm)	Boost Pressure (mmHg)	RW (mm)	Delivery Quantity (cc/200st)
N.A.	N.A.	N.A.	N.A.

NOTE:

- (1) Adjusting Lever Angle
Setting position 0° to be at vertical position.
- (2) Stop Lever Operation
Rack travel must be 1.8 – 2.0 mm when the stop lever is pulled at pump speed 450 rpm, then fuel delivery must be less than 0.9 cc/200 st:1cyl.