

INJECTION PUMP TEST SPECIFICATIONS

191000-0120

INJECTION PUMP	191000-012# (ND-PES6A95D312LND012)	MANU-FACTURER	mitsubishi
GOVERNOR	090800-9370 (RSV)	ENGINE TYPE	6D14C
TIMER	091800-0980 (SCZ)	VEHICLE MODEL	POWER SHOVEL

1. INJECTION TIMING

- | | | | |
|-----------------------|---|---------------------------|--------------------|
| 1) Rotation | : Counterclockwise 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 | 4) Feed Pressure | : 1.6 kgf/cm ² |
| 2) Nozzle Opening Pressure | : 175 kgf/cm ² | 5) High Pressure Pipe | : ø2 x ø6 x 600 mm |
| 3) Test Oil | : SAE J967 | 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
700	10.4	200	9.4 – 10.4	1.0	
400	9.2	500	5.0 – 7.0	1.5	
1020	8.4	500	7.6 – 10.0	2.5	

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	700	1000	48.5 – 50.5	
	900	1000	47.0 – 50.0	

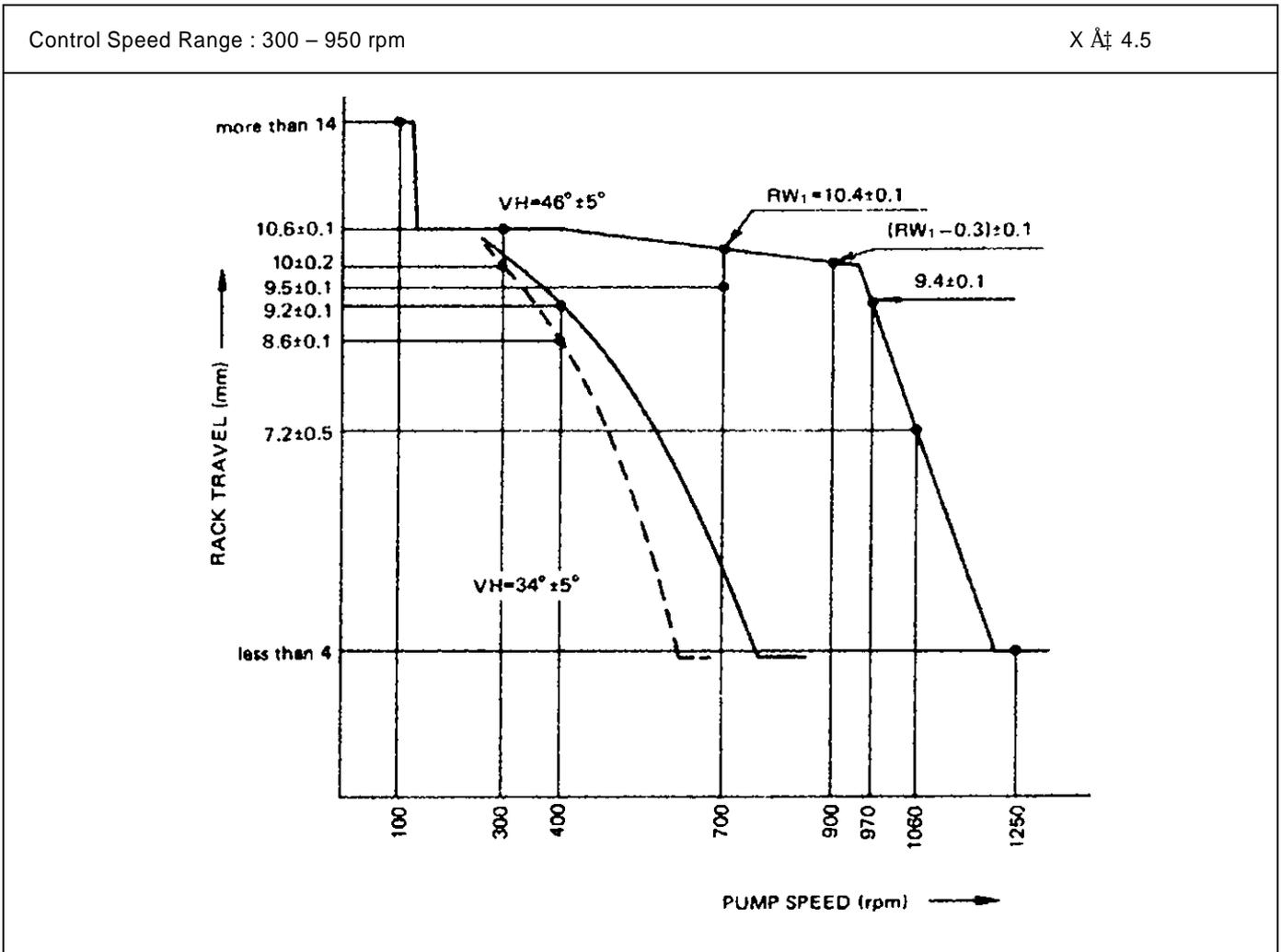
NOTE

The 1st cylinder is on the governor side.

5. ADJUSTMENT OF TIMER

N.A. : Not Applicable

Pump Speed (rpm)	1000	1600				
Advance Angle (deg)	Less than 0.5	1.5 – 2.5				



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) Angle of Adjusting Lever
Setting position 40° to be at vertical position, going positively towards the full lever position and negatively towards the idle lever position.
- (2) Stop Lever Set
Rack travel must be less than 2.5 mm at pump speed 930 rpm in full lever position.
- (3) Torque Spring Set
Drive the pump at 930 rpm in full lever position. Screw in the torque spring and make sure that rack travel decreases by 0.5 mm. After wards, screw it out not to operate.