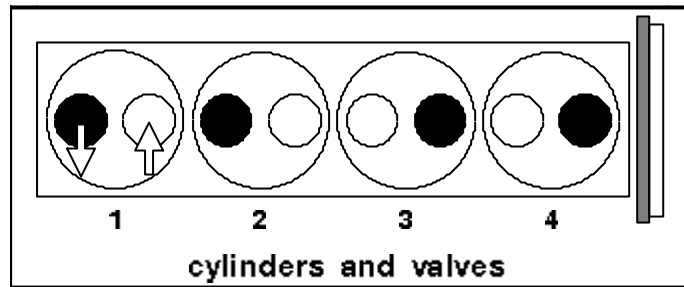


## Fuel system / Pre-glow system

### Injection system

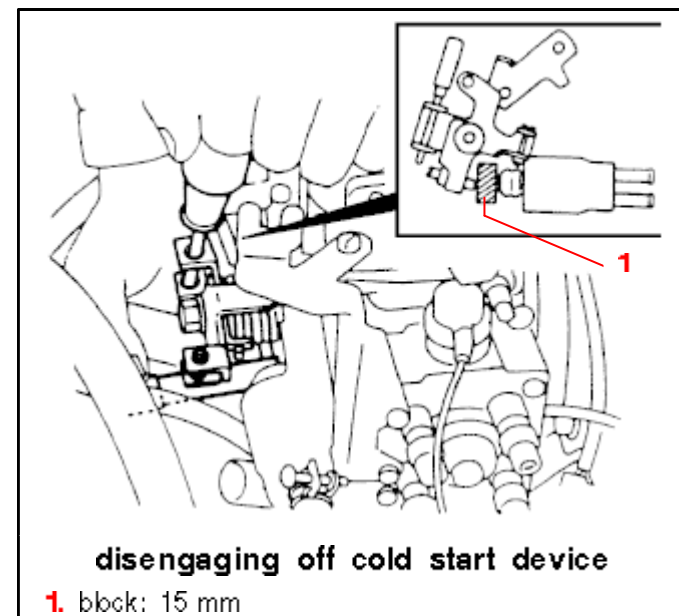


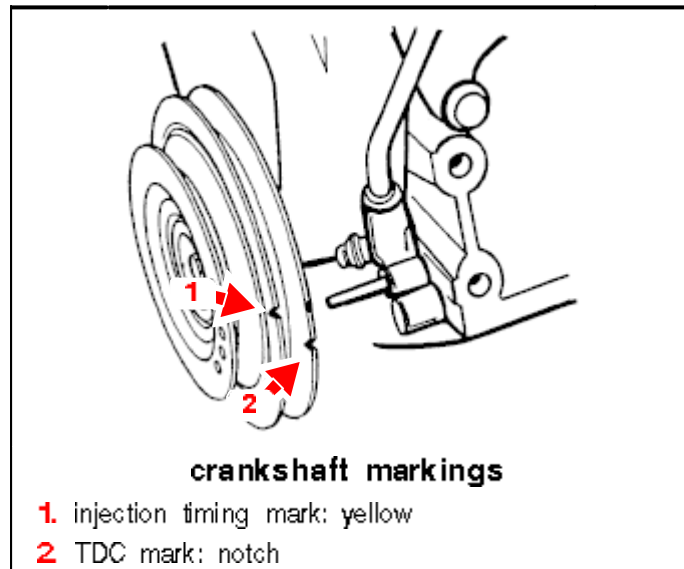
technical specifications	
injection pump	
– type	rotary
– make and model	no data available
injection	indirect
features	—
fuel pump pressure	no data available
injector break pressure	
– new	127,5 - 135,3 bar
– used	122,6 - 132,4 bar
injection sequence	1 - 3 - 4 - 2
glow plug pre-glow time	no data available
glow plug post-ignition time	no data available

### Adjustments

special tools	
dial indicator	KV11229352

### Injection timing





static injection timing	
– crankshaft position	9 °; after TDC
– plunger height	0,79 - 0,85 mm

torque settings	
injector lines	22 - 25 Nm
plug in adjustment opening	14 - 20 Nm
injection pump	
– bolt	49 - 59 Nm
– nut	13 - 18 Nm

Switch off the cold start device:

Turn the cold start unit clockwise.

Fit / apply: a block; see illustration.

Rotate the crankshaft clockwise: 2 turns.

Rotate the crankshaft clockwise until the crankshaft marks are aligned; notch in the crankshaft pulley.

Remove:

- the injector lines
- the plug from the injection pump adjustment opening.

Fit / apply: the dial indicator; on the injection pump.

Pre-load the dial indicator to: 2 mm.

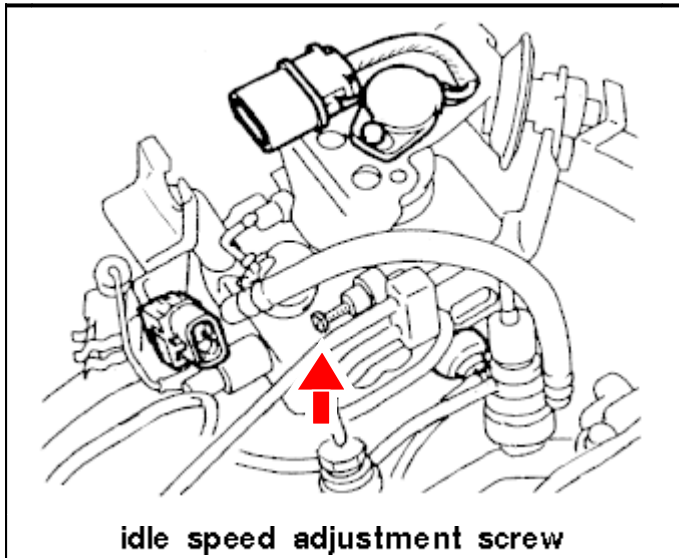
Rotate the crankshaft anti-clockwise until the dial indicator reaches the lowest value.

Zero the dial indicator.

Rotate the crankshaft clockwise until the crankshaft marks are aligned; yellow marking on crankshaft pulley.

Check the plunger height. Adjust by turning the injection pump.

## Idle speed



idle speed	725 ± 25/min
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Check condition(s):

- engine warm
- radiator fan off
- all electrical consumers off.

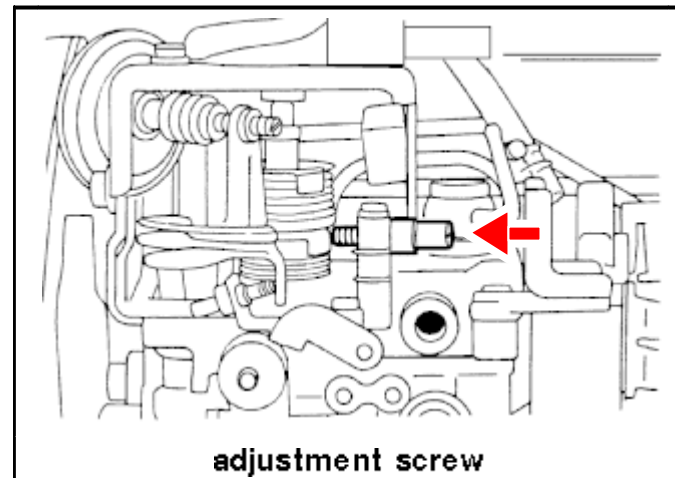
Adjust by turning the adjustment screw.

## Fast idle speed

fast idle speed	no data available
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Adjustment procedure: no data available.

## Max. rpm



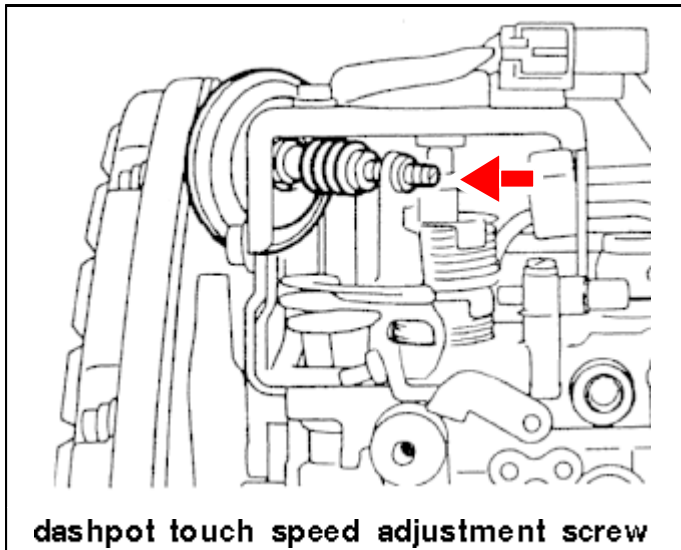
max. rpm; no-load	5400/min
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Check condition(s):

- engine warm
- radiator fan off
- all electrical consumers off.

Adjust by turning the adjustment screw.

### Dashpot touch speed



dashpot touch speed	1300/min
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Check condition(s): engine warm.

Set the dashpot touch speed:

Start the engine.

Turn the pump lever by hand.

Check the speed at which the dashpot touches the adjustment screw.

Adjust by turning the adjustment screw.