



## **2.5 Radiator fan drive speed adjustment**

### **Basic Adjustment**

Legend for illustration (Z 21606):

- (1) Dust cap
- (2) Lock nut
- (3) Set screw
- (5.2) Axial piston pump (fixed displacement pump, with variable setting)
- (6)  $Q_{\min}$  stop bolt
- (6.1) Lock nut
- (7)  $Q_{\max}$  stop bolt
- (7.1) Lock nut
- (10) Positioning pin (mover)
- (31.2) Pressure relief valve - Engine radiator fan drive
- (Y136) Proportional solenoid valve - Engine radiator fan speed (infinitely variable)
- (L1) Measurement of  $Q_{\min}$  stop bolt
- (L2) Measurement of  $Q_{\max}$  stop bolt
- (M7) Pressure check points - Engine radiator fan drive operating pressure



- **Basic adjustment has to be carried out whenever one of the following components has been replaced:**

- **pump**
- **relief valve**
- **hydraulic motor**

1. Reduce the output flow of pump (5.2), by adjusting the minimum possible swivel angle, to avoid over speeding the fan:

To do this, loosen both lock nuts (6.1 + 7.1) and turn **out** bolt (6) and turn **in** bolt (7) the **same length**.

This is necessary to avoid a loose positioning pin (10), resulting in oscillating of the cylinder barrel.

Tighten the lock nuts.

2. Remove protection cap (1) from relief valve (31.2), loosen lock nut (2) and turn set screw (3) fully clockwise and then a half turn counter clockwise.
3. Isolate the function of proportional solenoid valve (Y136), by disconnecting the plug connector, to ensure that the full flow of pump 5.2 will be delivered to the fan motor.
4. Connect a pressure gauge to check point (M7).
5. Start the engine and let it run with max. speed.

**continued**