

Adjustment of Valve Play

Types 220 and 220 a

Operation No.
M 26c

Special Tools:

Valve gauge bracket with tolerance tape	136 589 00 23
Special wrench, opening 14 mm (0.55"), for lower check nut at rocker arm	187 589 00 01
Wrench combination for upper check nut at rocker arm	187 589 01 09

Note: Formerly the check nuts have been positioned below the rocker arm; now the rocker arms are provided with upper check nuts.

Position of Intake and Exhaust Valves:

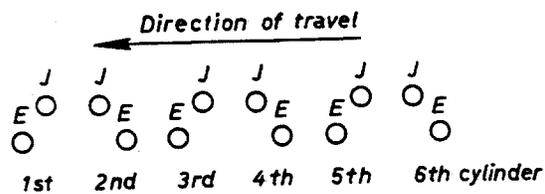


Fig. M 26c/00

The firing order is 1-5-3-6-2-4, starting with the 1st cylinder.

Procedure:

1. Loosen breather line at cylinder head cover as well as air filter unscrew cylinder head cover and remove all parts.

Note: In Type 220 the radiator stay must be removed first.

2. To check and adjust the valve play, position pertaining cam of camshaft in such a way that it points in a direction **opposite** the contact surface, that is with the back to the rocker arm; this is to ensure that the cam will not bear against the rocker arm.
3. Loosen locking nut of tappet adjusting screw and adjust screw to the correct play (Fig. M 26c/3). Tighten locking nut again. After locking nut has been tightened, check valve play again.

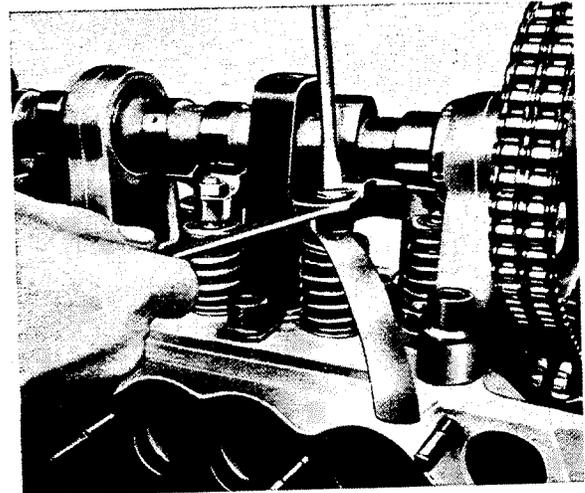


Fig. M 26c/3

If it is found that one of the lower check nuts has slackened, check contact surface between nut and rocker arm.

We recommend to install new rocker arms with upper check nuts next time the engine is overhauled.

4. After the valves have been adjusted, run engine **for a short time** and check adjustment of the various valves.

Valve play with engine cold:

Intake	0.08 mm (0.003")
Exhaust	0.20 mm (0.008")

The adjustment is correct if tolerance tape can be pulled between the screw and valve stem **with a suggestion of drag**. See also page M 30/4.

5. Reinstall all parts that have been removed.
6. Run engine and check whether cylinder head cover leaks oil.