

01—020 Evaluation of cylinder bores

Tightening torques

Nm

Cap nuts for injection lines

25

Nuts for cylinder head cover

15

Threaded ring for prechamber in cylinder head

150—180

Injection nozzle in prechamber

70—80

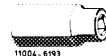
Special tools

Box wrench socket, open, 17 mm,
1/2" square for injection lines



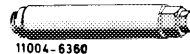
000 589 68 03 00

Socket 27 mm, 1/2" square



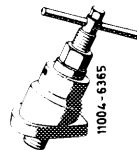
001 589 65 09 00

Socket wrench for threaded ring of prechamber



615 589 00 07 00

Puller for prechambers



615 589 00 33 00

Conventional tool

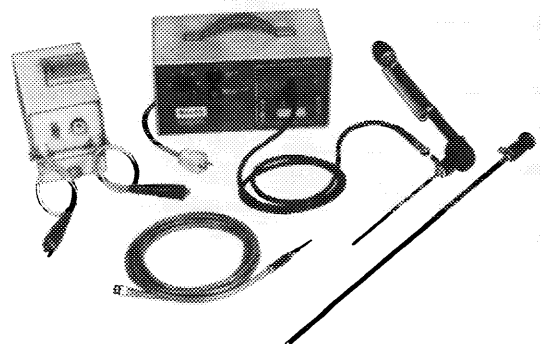
Cylinder illuminating lamp

Karl Storz GmbH, 7200 Tuttlingen
Motoskop TW (Kaltlicht)

with lens probes 103 26 CW (750 mm) and
103 26 CT (210 mm).

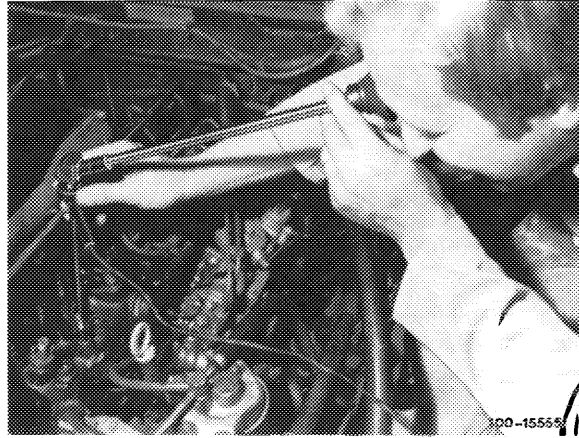
Note

A visual checkup can be made with cylinder head in place by means of a cylinder illuminating lamp. For this purpose, the prechambers must be removed (01—417).



103—15713

When evaluating scored or streaky cylinder walls, it is often difficult for a workshop to decide whether the damage is already extensive and requires removal or repair of the engine, or whether the evidence is harmless. The following instructions will help in making an expert and correct decision.



With regard to marks on cylinder walls, the first important difference is between "optical streaks" and "seizure streaks". As a rule, "optical streaks" are about 3 mm wide, they are produced by the piston ring gaps and do not destroy honing structure; "seizure streaks", however, obliterate honing structure.

With streaks in direction of "land" (in direction of piston pin) shaft streaks or seizures are not possible, since there is no contact between piston skirt and cylinder liner.