

Removing and Installing Cylinder Heads

(Engine removed from car)

23 EN

Special Tools: P 23 Carburetor wrench 12 mm SW
 P 3 Spark plug wrench
 VW 157 Allen wrench socket used with VW 118 for cylinder head nuts
 VW 118 Torque wrench used with VW 157 for cylinder head nuts

Removal

1. Remove lower air guide, side duct plates, cylinder duct plates, carburetor, and intake manifolds.

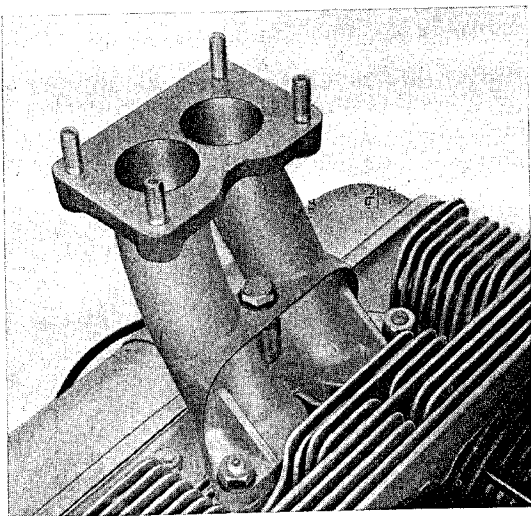


Fig. 135

2. Remove rocker box covers and rocker brackets (19 or 21 EN).
3. Remove cylinder head nuts with allen wrench and remove washers. See Fig. 136 for position of 8 nuts.

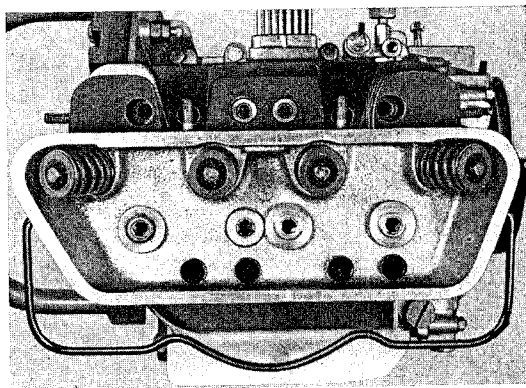


Fig. 136

4. Remove cylinder head.

Installation

The installation is accomplished in the reverse order of removal observing the following points:

1. There are no cylinder head gaskets between the cylinders and heads.
2. Install push rod tubes. To insure a proper seal to the cylinder head and crankcase the bellows on the tubes must be expanded carefully avoiding ruptures.

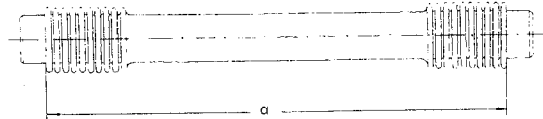


Fig. 137

Push rod tube "a" = 159 to 160 mm ($6\frac{1}{4}$ to $6\frac{11}{32}$ in.).

3. Install cylinder head insuring a good fit with the push rod tubes using new seals. Align tubes with seams up.

Crankcase seal

cylinder head seal

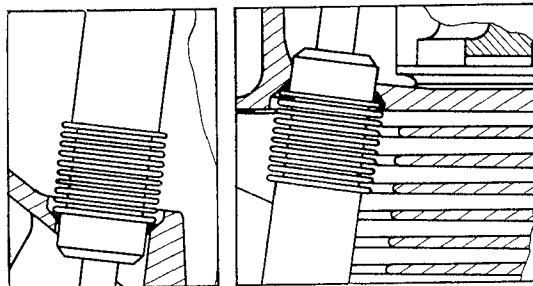


Fig. 138

4. The push rod tube seals are trapezoidal in cross-section.