

# Engine tuning

## 1. Choke actuation

by rubber straps saves weight and makes actuation fool-proof. art.: 220.1

## 2. Float bowl fixation

avoids loss off the float bowl due to contact with the riding boot. art.: 711.1

## Carburetor breather

tube avoids water from entering the carburetor when crossing deep water or in heavy rain. art.: 711.2

## 3. Oilcooler set

for models without cooler, necessary when increasing engine displacement and/or more power. Oilcooler mounted underneath the steering-head, complete with all necessary items using original BMW parts and HPN thermostat with mounting instructions. art.: 302.2 Please order with motorcycle chassis nr. and type.

## Without pict. Oilcooler set

like art.: 302.2 but without HPN thermostat. Please order with motorcycle chassis nr. and type.

## Without pict. Oilcooler set

to move the oilcooler from the crash bar pos., where it is exposed to gravel and crashes, underneath the steering head using original BMW parts with mounting instruction. art.: 1003 Please order with motorcycle chassis nr. and type.

## 4. Oilcoolerthermostat

for a regulated temperature of your motoroil. The thermostat is adjusted to begin opening at 90°C and is fully open at 110°C. This reduces the time to reach regular temperature and makes it possible to reach this temperature at all under bad weather conditions and in the cold season. "Serie" art.: 302.1

## 5. Rallye oil pan

with aluminum bottom plate. Avoids cracked oil pans when hitting ground or rocks. Race proofed item with a conical weight reduced spacer ring. "Serie" art.: 314

**Caution!** There are often problems based on incorrect mounted parts when changing oilfilters. Engines of the GS series 87-96 need no paper gaskets under the filter cover. If the gasket is installed you can get severe motor damage due to low oil pressure and too high oil temperature. Please follow the mounting instructions and when you are not sure ask your dealer or HPN.

## 6. Valve cover

modified to be bolted from outside finishes the fumbling around with shim and nut between the cooling fins, especially amusing on a hot engine. art.: 322

## Without pict. Valve cover

modified like art.: 322 and cut into two, even on extreme tours you need only one half for replacement. Only possible with the round cover as shown. art.: 323

## Without pict. Valve adjuster

light with a 4mm allen head and light locking nut, weight saving abt 5g/a piece. art.: 330.1 and 330.2

## Aluminum rocker shaft

mount weight reduction abt 48g/a piece total abt 385g. art.: 330

## Rocker shaft light weight

reduction abt.26g/a piece total abt 104g art.: 330.4

## Aluminum valve spring

retainer weight reduction abt 8g/a piece. Caution: under extreme conditions you have to calculate reduced life of the alu retainers. art.: 330.5

## 7. Spark plugs

with resistor for electronic equipment art.: 319.1

## 7. Ignition plug

watertight with resistor 5kOhm art.: 319.13

## 7. Ignition plug

with resistor 5kOhm art.: 319.22

