

Service-Information Motorcycle



BMW NA
Service Department

Group: 31
Front Fork

September 1991
31 025 91
(2479)

For USA Only

Leaking Front Fork Seals - All Models

Condition: Fork seals can leak as a result of excessive internal pressure.

How Seal

Leaks: After the compression stroke, a ring of oil may appear on the fork tube above the seal. Lift the dust cap and check the area above the seal. Wipe it dry if necessary. (On GS models lift up the fork gaiters). Then take the motorcycle for a test ride.

If the amount of oil leakage increases to the extent that once again a ring appears and the oil runs down and drips, i.e., the oil does not remain static, then the fork tube/seal is leaking excessively.

Remedy: Once the motorcycle has been secured in the crate in Berlin, the oil filler screw on each fork is briefly opened and then retightened to release any pressure generated during shipping.

Important: When a motorcycle is uncrated, the oil filler screws should be unscrewed to release pressure and then tightened.

Please be sure that the front wheel is off the ground (unloaded) when doing this.

Oil

Capacities: An excessive amount of oil in a fork tube will result in a higher pressure when compressed. Unequal levels on either side may cause unwanted tension and the front forks may be less responsive than normal.

Oil Filling

Capacities: A distinction on the attached chart is made between first time filling and refilling. When service work is being performed, the fork sliders cannot be drained completely.

Please initial and route to the following before filing				
Service	Parts	Sales	Warranty	Technicians

On R100GS models there is actually a difference between the right and left fork tube volume. When performing repair work for which the forks are completely stripped (i.e., replacing fork seals), the first time filling capacity applies.

Please use suitable measuring receptacles to ensure that the precise amounts are used.

Oil Grades: In addition to the fork oils recommended in Service Information bulletins and Riders Manuals, we are now able to recommend all-season "Esso Komfort" fork oil for all models.

This fork oil is available through normal parts channels using the following part numbers:

1000 ml	31 42 9 062 158
4000 ml	31 42 9 062 159

Very truly yours,

BMW of North America, Inc.



Frank Stevens
National Service Manager
Motorcycle Group



Richard Dampf
National Technical Manager

FS:jel/310.2
Att.

Oil Filling Capacities - Telescopic Fork

1985 Models - Onward

<u>Model</u>	<u>First-Time Filling</u>	<u>Filling Capacity - Oil Change</u>
R80/R100	300 - 10	300 - 10
R65/R80RT/R100RS/RT	320 - 10	320 - 10
R65G/S	230 - 10	230 - 10
R80GS/R100GS (247 E 88 Left and E 91) Right	470 - 10 470 - 10	410 - 10 440 - 10
K75, K75C	330 - 10	330 - 10
K75/K100 Models with fork stabilizer (Sport Suspension)	280 - 10	280 - 10
K100 Basic	330 - 10	330 - 10
K100RT/LT K100RS (Early) Without Fork Stabilizer	360 - 10	360 - 10
K100RS 16-Valve and K1	400 - 10	400 - 10