

Service-Information



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For U.S.A. and Canada Only -

SUBJECT: Technical Changes and Updates for 1982 Models

Dear Dealer:

In September 1981 the R65LS was introduced to complete the model selection.

On other models, updates were done.

R65LS:

1. BMW aluminum composite wheel.

This particular cast wheel is constructed using a hardened outer rim into which the rest of the wheel is cast.

The material used and the curved style of the spokes allow a great flexibility and rigidity of the entire cast wheel.

The new wheel is stronger, actual weight has been reduced in comparison to the previous cast wheel. Handling and stability was further enhanced by increasing rim width (2.15 x 18 vs. 1.85 x 18) of the front wheel.

2. Cockpit.

The newly designed cockpit characterizes the new R65LS. This cockpit reduces front wheel lift by 30%.

3. Handlebar.

In conjunction with the cockpit, a new handlebar was assigned, which allows a sporty, relaxed posture while riding.

4. Seat.

Integrated passenger grips. The storage box at rear of the seat has been increased from 2.3 liter to 3.3 liter capacity. The rear fender fits the new line.

5. Front wheel Brakes.

Double discs, standard. Better hydraulic leverage due to reduction of the master cylinder bore to 15 mmØ from 16 mmØ previously. Standard now on all models with double discs.

Please route and initial before filing

Service Manager	Parts Manager	Service Writer	Technicians			

6. Rear brake.

Increased drum diameter, 220 mm. Thus better braking at high loads.

7. Exhaust System.

Flat black color and re-designed exterior of the mufflers.

8. Tires.

The R65LS, as well as the R65, are now supplied with "H" tires.

Front	3.25 H 18
Rear	4.00 H 18

R65:

Single Disc Brake.

Better hydraulic leverage due to reduction of the front master cylinder bore to 12 mm \varnothing previously.

R 80 G/S:

Rear Spoke Wheel.

Size has been changed to 2.50 B - 18 (previously 2.15 B - 18). This enhances track holding, especially when riding off-road.

Disc Brake.

Nivomats - R100RT (Optional on other models.)

The new Nivomats are identified by a black lower shock body eye, because of a new internal re-design.

Please make sure that in case of repair, the previous and the new Nivomats may not be combined.

Enclosed find a combined technical listing of all 1982 models.

Yours truly,

BMW OF NORTH AMERICA, INC.



H. Neas
National Service Manager

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1982 Technical Data BMW Motorcycles		R65	R65LS	R80G/S	R100	R100RS	R100RT
<u>ENGINE</u>							
Displ. cc	649.6	x	x				
	797.5			x			
	980.0				x	x	x
Bore (mm)	82	x	x				
	84.8			x			
	94				x	x	x
Stroke (mm)	61.5	x	x				
	70.6			x	x	x	x
Compression Ratio	8,2 : 1	x	x	x	x	x	x
Fuel Preparation (Carbs-Number and V throat size, mm)	2-Bing-Carbs V 64; Ø 32	x	x	x			
	2-Bing-Carbs V 94; Ø 40				x	x	x
Fuel Requirement-ROZ-91, Regular unleaded		x	x	x	x	x	x
Muffler - type -	2 in 2 (2 headers with (2 crossovers & (2 mufflers	x	x		x	x	x
	2 in 1 (2 headers into (1 pre-muffler (up into (1 upswept (muffler			x			
<u>GEARBOX</u>							
Reduction Ratio:							
1. Gear	4,40: 1	x	x	x	x	x	x
2. Gear	2,86: 1	x	x	x	x	x	x
3. Gear	2,07: 1	x	x	x	x	x	x
4. Gear	1,67: 1	x	x	x	x	x	x
5. Gear	1,50: 1	x	x	x	x	x	x
Rear Drive (Rear Drive Ratio)							
	Final Ratio						
No. of teeth-32:11	2.91:1				x	x	x
No. of teeth-37:11	3.36:1			x			
No. of teeth-32: 9	3.56:1	x	x				

1982 Technical Data BMW Motorcycles	R6E	R6ELS	R8CG/S	R1C0	R100RS	R100RT
<u>CHASSIS</u>						
Front Fork Travel mm (inch)						
175 (7")	x	x				
200 (8")			x	x	x	x
Rear Swing Arm Travel mm (inch)						
110 (4.3")	x	x				
125 (4.9")				x	x	
85,5 (3.4")						x
170 (6.7")			x			
Brakes Front Dia. mm (inch)						
Disc 260 (10.2")	x		x			
Double Disc 260 (10.2")		x		x	x	x
Brakes Rear Dia. mm (Inch)						
Drum 200 (8")	x		x	x		
220 (8.7")		x				
Disc 260 (10.2")					x	x
Front Wheel Size, inches						
1,85 B x 18	x					
2,15 B x 18		x				
2,15 B x 19				x	x	x
1,85 B x 21			x			
Rear Wheel size, inches						
2,50 B x 18	x	x	x	x		
2,75 C x 18					x	x
Tire Size Front, inches						
3,00 -21 48R			x			
3,25H-18	x	x				
3,25H-19				x	x	x
Tire Size Rear, inches						
4,00 -18 64R			x			
4,00H-18	x	x		x	x	x
Type of wheel						
Cast wheel	x			x	x	v
Composite wheel		x				
Spoke wheel			x			
Wheel Base, mm (inch)						
1400 (55.1)	x	x				
1465 (57.7)			x	x	x	x
Trail, mm (inch)						
114 (4.5")			x			
96 (3.8")	x	x				
95 (3.8")				x	x	x

1982 Technical Data BMW Motorcycles		R65	R65LS	R80G/S	R100	R100RS	R100RT
Steering Angle	47°			x			
	42°	x			x		
	35°		x			x	x
Head Angle	62°	x	x	x	x	x	x
<u>WEIGHT & MEASURES</u>							
Overall Length, mm (inch)							
	2110 (83.0")	x	x				
	2210 (87.0")				x	x	x
	2230 (87.8")			x			
Width max. mm (inch)							
	688 (27.0")	x	x				
	746 (29.3")				x	x	x
	820 (32.3")			x			
Seat Height, unloaded, mm (inch)							
	810 (31.9")	x	x				
	820 (32.3")				x	x	x
	860 (33.8")			x			
Dry Weight, Kg (lbs.)							
	173 (381.3)			x			
	185 (407.8)	x					
	187 (412.3)		x				
	198 (436.5)				x		
	210 (463.0)					x	
	217 (478.4)						x
Unladen Weight Kg (lbs.) (with lubricants, fuel and tools)							
	192 (423.2)			x			
	205 (451.9)	x					
	207 (456.4)		x				
	218 (480.6)				x		
	230 (507.0)					x	
	237 (522.4)						x
Permissible Gross Weight, Kg (lbs.) (= unladen weight + total of rider, passenger and baggage)							
	398 (877.4)	x	x	x			
	440 (970.0)				x	x	x

1982 Technical Data BMW Motorcycles	R65	R65LS	R60G/S	R100	R100RS	R100RT
Permissible Wheel Load - Front, KG (lbs.) (at 30.5 lb/sq.in. 140 (308.6) tire pressure) 178 (392.4)	x	x	x	x	x	x
Permissible Wheel Load - Rear, KG (lbs.) (at 32.0 lb/sq.in. 270 (595.2) tire pressure)	x	x	x	x	x	x
Maximum Number of Persons, Including Rider 2	x	x	x	x	x	x
Fuel Capacity, liters (gal) 19.5 (5.1) 22 (5.8) 24 (6.3)	x	x	x	x	x	x
Fuel Reserve Cap., liters (gal) 2 (0.5)	x	x	x	x	x	x
<u>ELECTRICS</u>						
System Voltage-volts 12V	x	x	x	x	x	x
Starter-Electric 0.7KW	x	x	x	x	x	x
Battery Capacity (Ah) 16 28	x	x	x	x	x	x
Alternator Output (watts) 280	x	x	x	x	x	x
Halogen Headlight (H 4) mm(inch) Dia: 140 (5.5) 154 (6.0) 160 (6.3) 180 (7.0)	x	x	x	x	x	x
Ignition System, Breakerless, with "Hall" impulse trans- mitter (maintenance free)	x	x	x	x	x	x