BMW Motorcycle Main Group System

The Main Group system is used to identify various sub systems that make up the total motorcycle. The system is used throughout the service, parts, warranty and technical arenas of the BMW Motorcycle organization to aid in identifying:

- Part Numbers
- Repair Manuals
- Tightening Torque Values
- Special Tools
- Operational Values (MoDiTeC)
- Warranty Labor and Defect Codes
- Service Bulletins
- Parts and Accessory Bulletins

The main group system is structured by whole numbers from 00 to 99.

Single digit number 1 - 7 pertain to administrative issues, while double digit numbers 00 - 99 pertain to technical or sub-system specific identification.

Within the double digit number groups there are sub-groups that further separate the individual components that make up the total motorcycle, for example, as shown on the next page:

**Engine** is Group **11**.

**Crankshaft** is a sub component of engine, which is identified as **11.21**.

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## MAIN GROUPS

### 11.00 Engine
- 11.1 Crankcase
- 11.2 Cylinder Head
- 11.3 Oil Sump
- 11.4 Inner Timing Case
- 11.5 Crankcase Breather
- 11.21 Crankshaft
- 11.22 Flywheel/Starter
- 11.24 Conrod
- 11.25 Piston
- 11.26 Freewheel
- 11.27 Counter Shaft
- 11.31 Camshaft
- 11.32 Valve Tappet
- 11.33 Rockers
- 11.34 Valves
- 11.41 Oil Pump
- 11.42 Oil Filter
- 11.44 Oil Cooler
- 11.51 Water/Oil pump
- 11.53 Coolant
- 11.78 Oxygen Sensor (sometimes identified in main group 18)

### 12.00 Engine Electric
- 12.1 Ignition System
- 12.2 Spark Plugs
- 12.3 Coil
- 12.4 Transistor Ignition
- 12.5 Alternator
- 12.6 Voltage Regulator
- 12.7 Starter
- 12.8 Oil Pressure Switch

### 13.00 CO Adjustment
- 13.1 Carburetor
- 13.3 Fuel Distributor (rail)
- 13.4 Throttle Housing
- 13.5 Control Units
- 13.6 Potentiometer
- 13.7 Airflow Meter
- 13.8 Throttle Switch
- 13.9 Injector

### 16.00 Fuel System
- 16.1 Tank
- 16.2 Line/Cap/Pump/Filter
- 16.4 Shed System

### 17.00 Radiator
- 17.1 Thermostat/Tank
- 17.2 Hoses
- 17.3 Oil Cooling Lines
- 17.4 Fan

### 18.00 Exhaust
- 18.1 Exhaust System
- 18.2 Muffler
- 18.3 System Fittings

### 21.00 Clutch
- 21.1 Housing/Plate/Ring
- 21.5 Clutch Lever

### 23.00 Gearbox
- 23.1 Housing
- 23.2 Seals
- 23.3 Pressure Piston (throw out)
- 23.4 Drive Gear
- 23.5 Shafts/Bearings
- 23.6 Selector Drum
- 23.7 Selector Internal
- 23.8 Selector External
- 23.9 Kick Start

### 26.00 Drive Shaft
- 26.1 Drive Shaft

### 27.00 Chain/Belt Drive

### 31.00 Telescopic Fork
- 31.42 Fork/Head Bearings
- 31.43 Trailing Arm/Bearings
- 31.44 Spring Strut
### 32.00 Steering
- 32.11 Steering
- 32.32 Lock
- 32.71 Adj. Handlebar/Weights
- 32.72 Brake Lever/Clutch Lever
- 32.73 Clutch Cable/Throttle Cable

### 33.00 Rear Swing Arm
- 33.11 Universal Joint/Housing
- 33.12 Crown Wheel/Pinion/Sensor
- 33.17 Bearing/Boot
- 34.32 Front Brake Hose
- 33.52 Shock/Adj. Knob
- 33.53 Rear Strut/Nivomat

### 34.00 Brake System
- 34.11 Ft. Brake Components
- 34.21 Rear Brake Components
- 34.31 Master Cylinder/Reservoir
- 34.32 Front brake hose
- 34.50 ABS Components

### 36.00 Wheels
- 36.31 Rim/Spokes/Bearings
- 36.32 Tires

### 46.00 Frame
- 46.51 Frame
- 46.52 Center Stand
- 46.53 Side Stand
- 46.54 Top Case/Bags/Mounts/Racks
- 46.61 Front Mudguard
- 46.62 Rear Mudguard
- 46.63 Fairing/Battery Cover/Windshield
- 46.71 Foot pegs/Engine Guards

### 51.00 Vehicle Trim
- 51.16 Mirrors
- 51.25 Locks
- 51.91 Paint

### 52.00 Seat
- 52.53 Seat Components

### 61.00 Vehicle Electric
- 61.11 Wiring
- 61.12 Battery Charger's
- 61.21 Battery
- 61.31 Switches/Relays/Sensors
- 61.33 Horn/ Starter
- 61.34 Cigarette lighter
- 61.36 ABS Relay

### 62.00 Instruments
- 62.11 Instrument Cluster
- 62.12 Speedometer

### 63.00 Lights
- 63.12 Housing/Bulb
- 63.13 Ft. Turn Signal
- 63.14 Ft. Side Reflector
- 63.21 Rear Light
- 63.23 Rear Turn Signal/Holder

### 65.00 Radio
- 65.10 Radio
- 65.75 Anti-Theft/Alarms

### 67.10 Windshield Motor (older models)

### 71.00 Accessories (MC)

### 72.00 Accessories (Rider)

### 99.00 Paint