

# Service-Information Motorcycle



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Service Department

Group: 12  
Engine  
Electric

January, 1993  
12 018 93  
(2572)

For USA Only

## Engine Difficult to Start, Temporarily Runs On Only One Cylinder - All Boxer Engines

**Problem:** Under certain conditions (low temperature, poorly tuned or synchronized engine), initially only one of the engines' cylinders fire.

**Remedy:** 1) The ignition coils have been modified

12 13 1 243 910 - old coil

12 13 1 244 426 - new coil

2) The timing control in the ignition control unit has been modified so that no ignition sparks are suppressed even when the engine runs out of synchronization.

### Control Unit

**Identification:** The part number of the modified control unit is the same as previous units, however, it can be recognized by the *turquoise lettering*.

**Note:** The modified control units can be used on all boxer engines with electronic ignition (from 1981 on). However, control units with *white* or *pink* lettering should only be used with ignition coil 12 13 1 243 910 (all boxer engines before 1991), i.e., do not use the new coil with the white or pink control unit. The new control unit, however, can be used with the old coil.

### Models with

**Kick Starters:** The modified ignition control units (turquoise color) are only available with a switching off duration of 1.2 seconds, i.e., to protect the ignition coils, the primary current is interrupted after 1.2 seconds if engine speed information is not received.

Please initial and route to the following before filing

| Service | Parts | Sales | Warranty | Technicians |
|---------|-------|-------|----------|-------------|
|         |       |       |          |             |

★ ★ Maintaining The Obsession ★ ★

This has no effect on starting with the electric starter motor.  
When kick starting, the engine should be turned over and the starting procedure completed within 1.2 seconds.

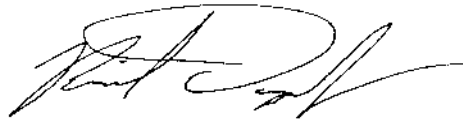
Engine speed information can be simulated by switching the ignition off and on again with the key or by using the emergency "off" switch if the starting procedure cannot be completed within 1.2 seconds.

Very truly yours,

BMW of North America, Inc.



Frank Stevens  
National Service Manager  
Motorcycle Group



Richard Dampf  
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FS:tb/432.9