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| TECHNICAL BULLETIN                                                                |                                     |
|-----------------------------------------------------------------------------------|-------------------------------------|
|  | <b>March 2003</b><br><b>TB 2060</b> |
| Mfg:                                                                              | TOYOTA                              |
| Model:                                                                            | COROLLA                             |
| Liter:                                                                            | 1.8L                                |
| V I N:                                                                            | 1ZZFE                               |
| Year:                                                                             | 98-08                               |

Valve Seal Identification For  
2000-2002 Toyota 1.8L Engines

The AERA Technical Committee offers the following information on valve seal identification for 2000-2002 Toyota 1.8L engines. Starting with the 2000-year model Toyota offered two 1.8L engines with similar displacement, a 1ZZ-FE and a 2ZZ-GE designation.

Determining which engine you're working on may be confusing, as many components are similar. Valve stem seals fall into the confusing category, as they physically appear the same at first glance. Original equipment and some aftermarket seals are color coded to ease in seal identification. Refer to the chart and Figure 1 below to help identify the seals once they're out of their original packaging.

| Engine Model | Location | Coloring    | Part Number | Stem Diameter |
|--------------|----------|-------------|-------------|---------------|
| 1ZZ-FE       | Exhaust  | Gray        | 9008031046  | .2152-.2157"  |
| 1ZZ-FE       | Intake   | Light Brown | 9091302101  | .2154-.2159"  |
| 2ZZ-GE       | Exhaust  | Green       | 9091302115  | .2144-.2154"  |
| 2ZZ-GE       | Intake   | Black       | 9091302114  | .2150-.2156"  |

Valve guides are also slightly different between the two engines, which offers additional means of engine identification. The installed guide height and the guide outside diameter are different as the 2ZZ-GE engine protrudes higher than the 1ZZ-FE. The 2ZZ-GE guides should be .602-.618" above the spring seat while the 1ZZ-FE guides should be .342-.358" above the spring seat.

The AERA Technical Committee

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| <b>Reference:</b> |  |
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## TECHNICAL BULLETIN

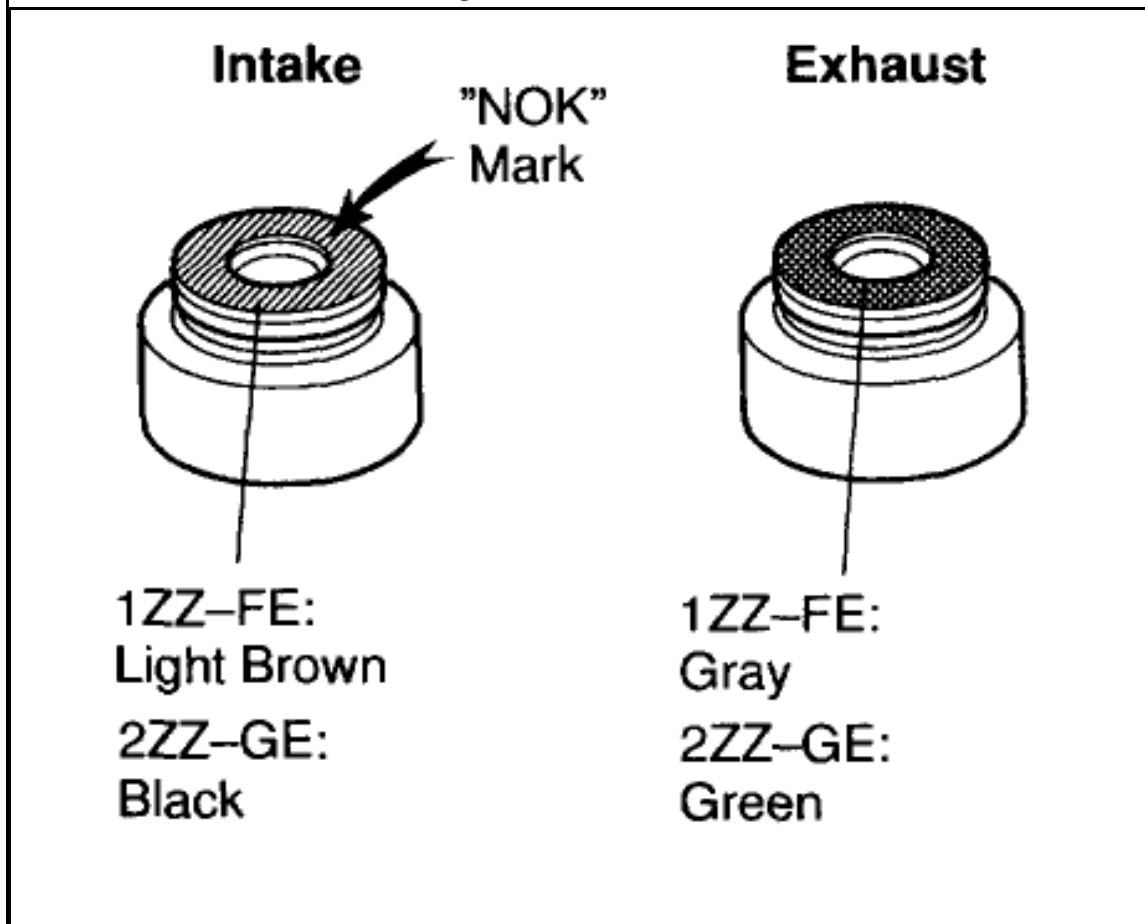


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Mfg: TOYOTA  
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### Bulletin Diagram: VALVE STEM SEAL COLORED IDENTIFICATION - CYLINDER HEAD



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Reference: