Service Information, Tools, and Safety
Chapter 1

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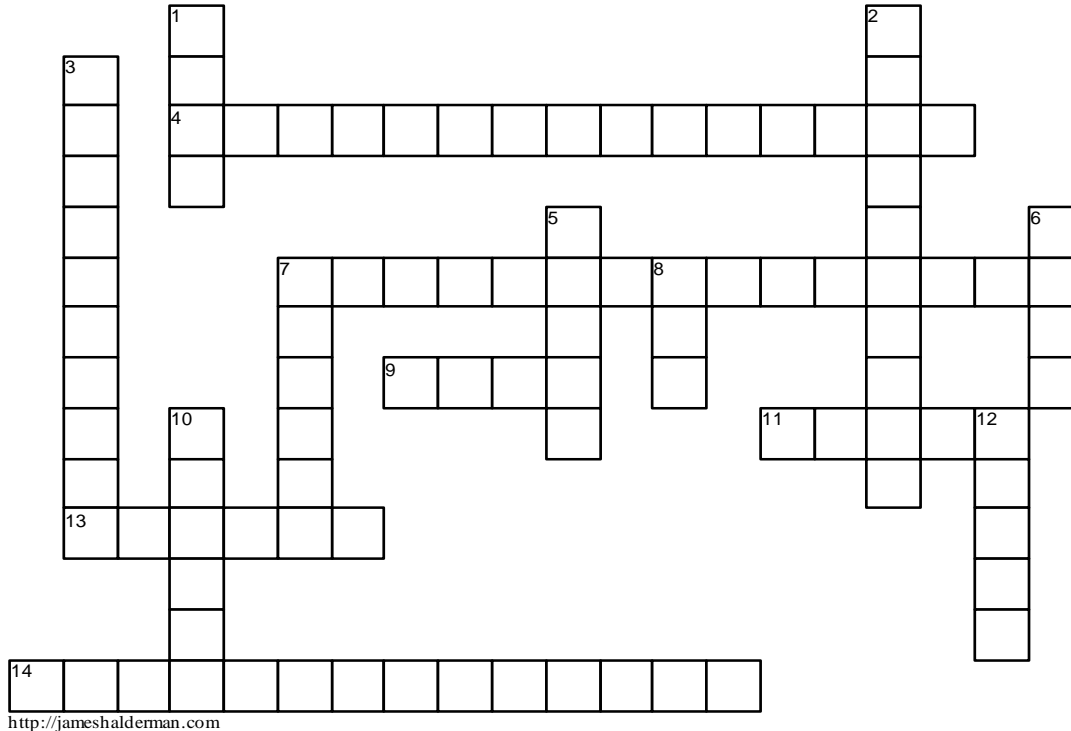
ACROSS

4 _____ _____ is the maximum stress used under tension without causing the failure of a fastener.

7 Whenever diagnosing an engine operating fault, it is often necessary to use the _____ ____ to be sure that the vehicle is the subject of a technical service bulletin or other service procedure.

9 Often, a ____ will have coarse threads on one end and fine threads on the other end.

11 _____ are used to smooth metal and are constructed of hardened steel with diagonal rows of teeth.

13 A _____ or campaign is issued by a vehicle manufacturer and a notice is sent to all owners in the event of a safety-related fault or concern.

14 _____ _____ can be used to identify the part and check dimensions such as the cubic inch displacement and other information, such as the year of manufacture.

DOWN

1 ____ are the female part of a threaded fastener.

2 The size of a _____ ____ is specified by the letter M followed by the diameter in millimeters (mm) across the outside of the threads.

3 Whenever a fastener is difficult to remove, some technicians will insert the handle of a ratchet or a breaker bar into a length of steel pipe sometimes called a _____ ___.

5 The strength or classification of a bolt is called the _____.

6 The ____ label under the hood of the vehicle shows information settings and emission hose routing information.

7 A _____ has a straight, sharp cutting end that is used for cutting off rivets or to separate two pieces of an assembly.

8 ___ are issued by the vehicle manufacturer to notify service technicians of a problem and include the necessary corrective action.

10 A _____ fits over the fastener and grips the points and/or flats of the bolt or nut.

12 Service technicians are often asked to fabricate sheet metal brackets or heat shields and need to use one or more types of cutters available called _____.