

Hand Tools

Chapter 4

ACROSS

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

4 An _____ is often used where the exact size wrench is not available or when a large nut, such as a wheel spindle nut, needs to be rotated but not tightened.

6 Socket extensions and _____ are also used with sockets to allow access to fasteners in restricted locations.

8 Another name for multigroove adjustable pliers is _____.

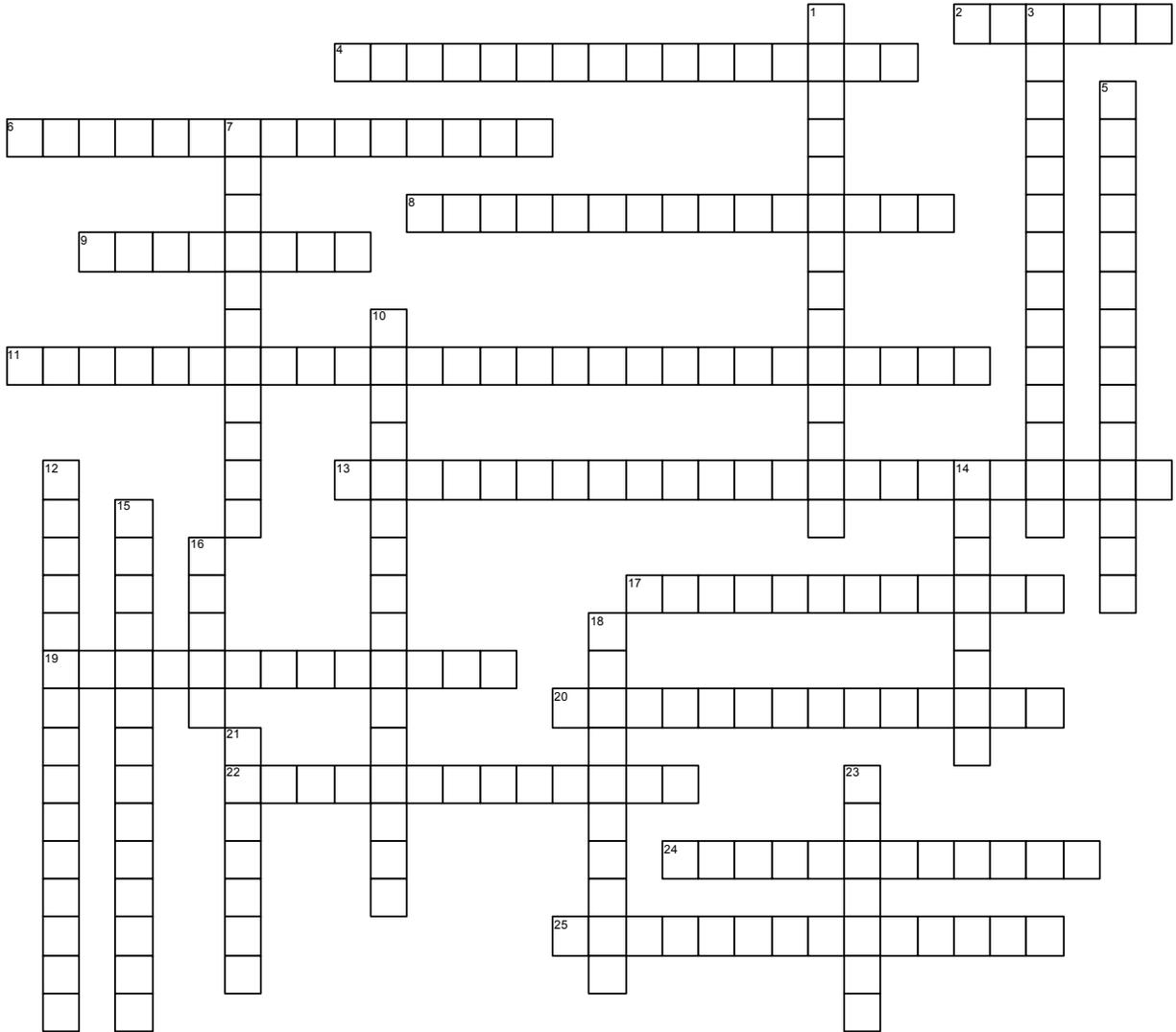
9 Another name for a box-end wrench is a _____ wrench.

11 For gripping larger objects, a set of _____

_____ is a commonly used tool of choice by many service technicians.

13 A _____ is first set to the specified torque and then it "clicks" when the set torque value has been reached.

17 A _____ is placed over the top of the fastener and grips the points of the



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19 An _____ is often used to loosen or tighten bolts or nuts that do not require a lot of torque.

20 _____ are designed for cutting only.

22 _____ are adjustable pliers that can be locked to hold objects from moving.

24 A _____

_____ uses a replaceable blade and is used to cut a variety of materials such as carpet, plastic, wood, and paper products, such as cardboard.

25 A shot-filled plastic hammer is called a _____.

DOWN

1 _____

_____ are used to remove and install snap rings.

3 A _____ is a socket that is an open-end or line wrench to allow access to fasteners that cannot be reached using a conventional wrench.

5 _____ are socket turning

handles that are designed to apply a known amount of force to the fastener.

7 Many smaller fasteners are removed and installed by using a _____.

10 _____ are designed to grip small objects or objects in tight locations.

12 The common

household type of pliers is called the _____.

14 _____ are the most used hand tool by service technicians.

15 Another name for a line wrench is a _____.

16 _____ are used to smooth metal and are constructed of

hardened steel with diagonal rows of teeth.

18 Sockets are available in various _____, including 1/4 in., 3/8 in., and 1/2 in. sizes for most automotive use.

21 The most commonly used screwdriver is called a _____.

23 The socket is

rotated using either a long bar or a _____.