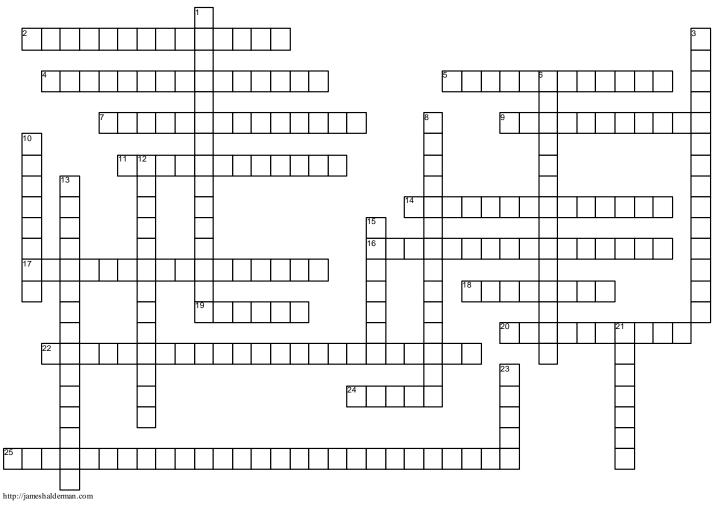
Hand Tools

Chapter 9



ACROSS

designed for cutting only. 4 Another name for multigroove adjustable pliers is _____ **5** 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. **7** A is a socket that is an open-end or line wrench to allow access to fasteners that cannot be reached using a conventional 9 Many smaller fasteners are removed and installed by using a_ **11** A ___- is placed over the top of the fastener

and grips the points of the

14 A shot-filled plastic hammer is called a ____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. 17 _____are designed to grip small objects or objects in tight locations. ____ are the most used hand tool by service technicians. **19** A _____ fits over the fastener and grips the points and/or flats of the bolt or nut. 20 Avoid using a _____ to remove difficult fasteners. They may break or shatter sockets and ratchets as well as cause personal injury.

___ is first set to the

22 A_

fastener.

value has been reached. 24 A _____ is used to drive a pin out that is used to retain two components. 25 For gripping larger objects, a set of __ is a commonly used tool of choice by many service technicians. **DOWN** 1 The common household type of pliers is called the ____-___- are used to remove and install snap rings. _ are socket turning handles that are

designed to apply a known

amount of force to the

fastener.

specified torque and then it

"clicks" when the set torque

8	Another name for a line
	wrench is a
10	Another name for a box-end
	wrench is a
	wrench.
12	An is often
	used to loosen or tighten bolts
	or nuts that do not require a
	lot of torque.
13	Socket extensions and
	are also
	access to fasteners in
	restricted locations.
15	A is used to cut
13	metals, such as steel,
	aluminum, brass, or copper.
21	The socket is rotated using
	either a long bar or a
	·
23	are used to smooth
	metal and are constructed of
	hardened steel with diagonal
	rows of teeth.

