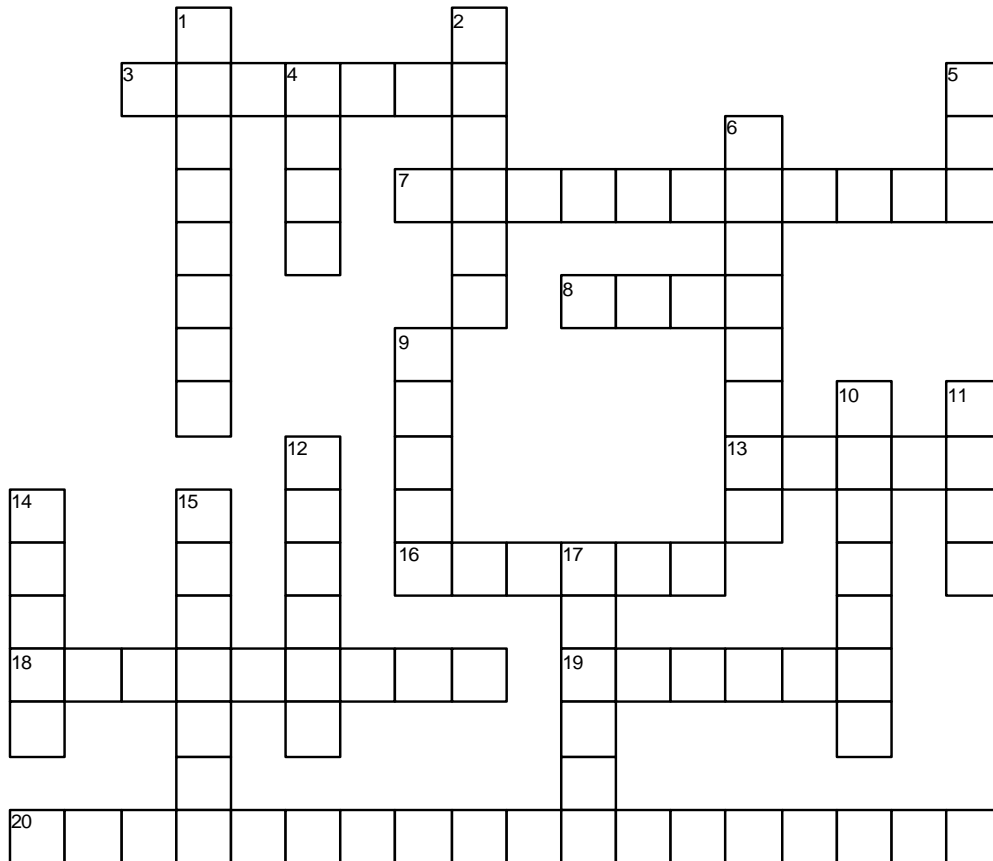


# Service Information, Tools, And Safety

## Chapter 1



<http://jameshalderman.com>

### ACROSS

- 3 \_\_\_\_\_ strength is the maximum stress used under tension (lengthwise force) without causing failure of the fastener.
- 7 \_\_\_\_\_ codes are usually located on Powertrain Control Modules (PCMs) or other controllers.
- 8 Service technicians working under a vehicle should wear a \_\_\_\_\_ cap to protect the head against under-vehicle objects and the pads of the lift.
- 13 The strength or classification of a bolt is called the \_\_\_\_\_.
- 16 \_\_\_\_\_ electric vehicles use a high-voltage battery pack and an electric motor(s) to help propel the vehicle.
- 18 \_\_\_\_\_ service bulletins, often abbreviated Tsbs, sometimes called technical service information bulletins (TSIB), are issued by the vehicle manufacturer to notify service technicians of a problem and include the necessary corrective action.
- 19 A \_\_\_\_\_ dioxide fire extinguisher is good for almost any type of fire, especially Class B and Class C materials.
- 20 \_\_\_\_\_ rating (GVWR) is the maximum (upper limit) weight of a vehicle as specified by the vehicle manufacturer.

### DOWN

- 1 Service technicians should wear \_\_\_\_\_ protective equipment (ppe) to prevent personal injury.
- 2 a \_\_\_\_\_ can occur when either the manufacturer or the National Highway Traffic Safety Administration (NHTSA) determines there is a concern.
- 4 A \_\_\_\_\_ is a short rod with threads on both ends.
- 5 Abbreviation for vehicle identification number.
- 6 a \_\_\_\_\_ is typically issued when a manufacturer wants to improve a product's performance or increase the customer's satisfaction.
- 9 Most \_\_\_\_\_ grinders are equipped with a grinder wheel (stone) on one end and a wire brush wheel on the other end.
- 10 \_\_\_\_\_ numbers 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.
- 11 Abbreviation for vehicle emissions control information.
- 12 The size of a \_\_\_\_\_ bolt is specified by the letter M followed by the diameter in millimeters (mm) across the outside (crest) of the threads.
- 14 Most of the threaded fasteners used on vehicles are \_\_\_\_\_.
- 15 \_\_\_\_\_ are often used under cap screw heads and under nuts.
- 17 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.