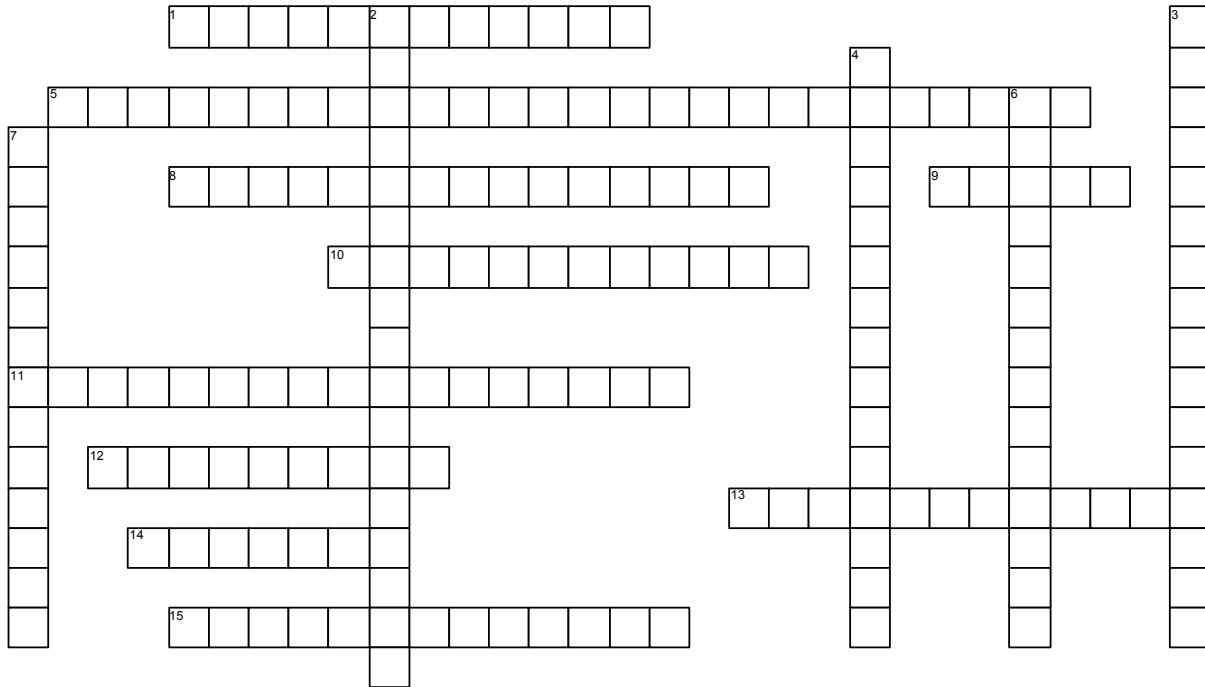


# Engine Installation And Break-In

## Chapter 38



<http://jameshaldeman.com>

### ACROSS

- 1 After engine start up, the \_\_\_\_\_ should be changed at 500 miles to remove any dirt that may have been trapped in the engine during assembly and to remove the material that has worn from the surfaces during the break-in period.
- 5 \_\_\_\_\_ is the temperature at which the upper radiator hose is hot and pressurized.
- 8 Making a \_\_\_\_\_ checklist guarantees that all accessories are correctly reinstalled on the engine.
- 9 During the preinstallation check, check that all fuel lines are properly connected and free from \_\_\_\_\_.
- 10 Upon engine start, record the \_\_\_\_\_, it should be 17 to 21 in. Hg.

- 11 \_\_\_\_\_ with a sling attached to the manifold or head bolts or lifting brackets on the top of the engine is necessary during engine installation.
- 12 Never add \_\_\_\_\_ to the cooling system while the engine is running.
- 13 Applying loads to an engine for \_\_\_\_\_ of time creates higher piston ring pressure against the cylinder walls and assists the breaking-in process by helping to seat the rings.
- 14 \_\_\_\_\_ means increasing the throttle opening without increasing engine speed.
- 15 When installing the \_\_\_\_\_, the radiator is installed and secured in place, followed by the cooling fan and shroud.

### DOWN

- 2 \_\_\_\_\_ is a term used to describe the

process of attaching all of the auxiliary items to the engine.

- 3 When installing the \_\_\_\_\_, under the hood wiring to the starter and alternator should be connected as required.
- 4 Many engines for \_\_\_\_\_ - \_\_\_\_\_ vehicles are installed from underneath the vehicle.
- 6 When installing the engine in a \_\_\_\_\_ - \_\_\_\_\_ vehicle, the engine must be tipped as it was during removal to let the transmission go into the engine compartment first.
- 7 Many \_\_\_\_\_ greases used during assembly can start to clog oil filters within 20 minutes after starting the engine.