Transmission Condition Diagnosis
Chapter 13

ACROSS

2 The three most common sources of transmission noise are bearings, gears, and the ______ system.

5 _________ tools are designed to function on more than one brand of vehicle.

9 Honda’s factory scan tool is called HDS or ______.

11 The first step when diagnosing automatic transmission concerns is to verify the ______ complaint.

12 When a new TCM is installed it is often necessary to perform a ________.

13 Another name for Powertrain Control Module (PCM) is _________ ______ module.

14 _________ of transmission fluid can cause slippage and mushy operation because of the air in the foamy fluid.

16 Some highly ______-______ ATF’s tend to turn light brown after a short period of time and this should not be used as a sign of fluid breakdown.

17 _________ tools are scan tools required by all dealers that sell and service specific brand vehicles.

DOWN

1 A ______ is used to verify the customer’s concern and check the general overall condition of the transmission.

3 On a scan tool, an ________ oxygen sensor should have a voltage varying between 200 and 800 mV.

4 One of the roles of the __________ module is to monitor the transmission operation and determine if malfunctions may be occurring.

6 Some vehicles include a code for ______ index, also called transmission adapt pressure (TAP) or clutch fill volume index.

7 The vehicle DTCs and data can be acquired by looking at the ______ (generic) part of the PCM and does not need to have the vehicle information entered into the scan tool.

8 On a scan tool, a ______ pulse width should read 1.5 to 3.5 ms.

10 Check for the proper voltage and current of the _____ _______ using a factory or factory-level scan tool.

15 Bearing noise, often described as a ______, is caused by damage, pits, or scoring that makes the surface rough.