Wheel Alignment
Chapter 52

ACROSS

3 Many vehicles with IRS use a type of alignment that uses the ___________ __________ of the vehicle as a basis for all measurements of toe.
5 The ________ is another term used to describe steering wheel position.
6 A measurable amount of alignment change can be made with a ___________ __________.
7 A ________ is the most accurate alignment method and is necessary to ensure maximum tire wear and vehicle handling.
9 The combined toe angle for both wheels is called ________.
10 ________ is a term used to describe the lead or pull of a vehicle caused by faults in the steering or suspension system.
11 A ________ alignment uses the thrust angle of the rear wheels and sets the front wheels parallel to the thrust line.
12 Many manufacturers include a __________ in the service manual that gives the thickness and location of the shim changes based on the the alignment reading.
13 A ________ rule includes a check of the steering wheel.

DOWN

1 There are 60 minutes in 1 ________.
2 Before checking or adjusting the front-end alignment, a ___________ ________ should be performed.
4 One excessively worn tire could cause unequal ________.
6 ________ occurs in front-wheel-drive vehicles when engine torque causes a front wheel to change its angle from straight ahead.
7 Specifications are often published in __________ or decimal degrees.
8 Rear toe is often adjusted using an adjustable tie rod end or an __________ on the lower control arm.