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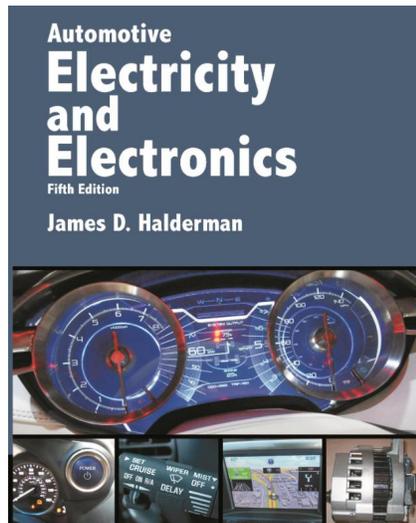
Halderman newsletter

October 2015

What's new with Jim?

I am pleased to announce that the latest (5th) edition of Automotive Electricity and Electronics will be published soon and will be available in time for second semester classes. The updates to the Fifth Edition include:

- Over 60 new full-color photos and line drawings added to make the subject come alive.
- Updated throughout and correlated to the latest ASE/ NATEF tasks.
- New Case Studies included in this edition that includes the "Three Cs" (Complaint, Cause and Correction).
- New OSHA hazardous chemical labeling requirements added to Chapter 2.
- Additional explanations added to Chapter 4 about electrical circuits to make learning this important topic easier to understand.
- New content on three-legged and low profile fuses plus smart junction boxes added to Chapter 10.
- New content on immobilizer systems added to Chapter 26.
- Unlike other textbooks, this book is written so that the theory, construction, diagnosis, and service of a particular component or system is presented in one location. There is no need to search through the entire book for other references to the same topic.



Testimonial:

"Your book is GREEAAAAAATTTTTTTT! I used it this semester as a supplement for a heavy equipment electrical course that I teach. What are the chances that you have the same type book that is devoted to heavy equipment?"

Warmest regards,

Please continue to follow me on [LinkedIn](#), [Facebook](#) and [Twitter](#) for up-to-the-minute updates and for the fantastic interaction I receive from many of you.

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Where's Jim?

www.jameshalderman.com
Email Jim
Facebook

Upcoming Conferences

Colorado Automotive Teachers Society

Oct. 1-2

Presenting: Engine Oil Update

ICAIA

Oct. 8-9

Presenting: Teaching Tires and Wheels

California Automotive Teachers

Oct. 17

Presenting: Teaching Tires and Wheels

SEMA

Nov. 2-6

Attending events

Are you going to SEMA?

I will be there too and would like to catch up with you! I will be hosting a hospitality suite in Las Vegas on Monday, November 2 from 6-9 p.m. This is an RSVP event, so please email Judy Wax to get on the list and be included in this event.

Sincerely,
Jim

Auto Trivia

What was one of the major changes between the 1956 and the 1957 (shown) Chevrolets?



- a. The location of the gas filler cap
- b. The 1957 used 14 inch wheels instead of 15 inch diameter wheels
- c. The frame was an x-type frame on the 1957
- d. The wheelbase was stretched

Answer posted at the bottom of this newsletter, and I will post this question on my [Facebook page](#) on Friday. And then will post the answer in comments shortly thereafter.

Sample ASE question

QUESTION:

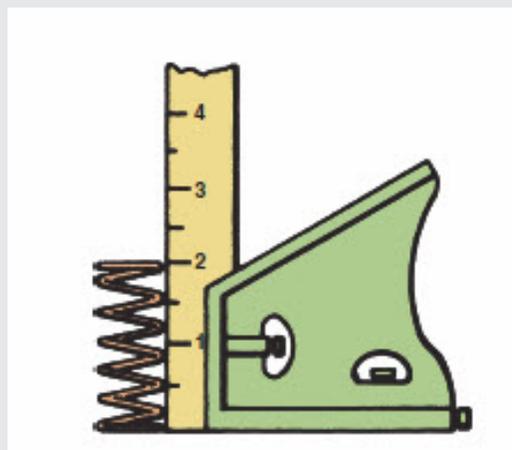
The setup shown is being used to check _____.

- a. Valve spring installed height
- b. Valve stem height
- c. Valve spring squareness and free height
- d. Valve spring tension

ANSWER:

The correct answer is c. All valve springs must be checked that they are square and of equal height. Answer a is not correct because the installed height of a spring is measured from the bottom of the retainer and locks in place to the valve seat. Answer b is not correct because stem height is a measurement of the valve itself from the spring seat, not a measure of the spring. Answer d is not correct because the setup shown is not placing a load on the

spring, and therefore, cannot be used to measure spring tension.



Frequently Asked Questions

What does this tube do?

The tube shape is designed to dampen out certain resonant frequencies that can occur at specific engine speeds. The length and shape of this tube are designed to absorb shock waves that are created in the air intake system and to provide a reservoir for the air that will then be released into the airstream during cycles of lower pressure. This resonance tube is often called a Helmholtz resonator, named for the discoverer of the relationship between shape and value of

frequency, Herman L. F. von Helmholtz (1821-1894) of the University of Hönizberg in East Prussia. The overall effect of these resonance tubes is to reduce the noise of the air entering the engine.



Straight Talk

From the September 26 Wheels section of Dayton Daily News

Reader asks what fluids need to be replaced

Wheels: An e-mail from Lona asks:

"I am very confused as to whether I should have all the fluids changed in my car. I have a 2004 Honda Accord with 60,000 miles on it. Money, or the lack of it, is a tremendous concern to me so I do not want to do anything not completely necessary. On the other hand, I must drive this car for many years to come. Please give me an opinion."

Halderman: I would recommend that all fluids be replaced according to the vehicle manufacturer's recommended intervals as stated in the owner's manual. Your vehicle is now eleven years old and the following fluids are usually recommended to be changed:

1. Automatic transmission fluid
2. Engine coolant
3. Brake fluid

At this age and mileage, the timing belt (if equipped) is usually recommended to be changed. While this can be expensive, the coolant, water pump, and accessory drive belts are also replaced at this time. If these operations are performed now, your vehicle will be properly prepared for many more miles and years of service.

Have an automotive question? Please write to Jim with your questions at jim@jameshalderman.com

Trivia question answer: B.

Please let me know what you think of the newsletter. I would love to include any of your automotive news, trivia questions or any tech tips you might have. Send me your suggestions!

You can email me [here](#) or visit [my website](#). You can connect with me on Facebook, Twitter and LinkedIn too (links above).

Regards,

Jim Halderman

James D. Halderman writes automotive technology textbooks for [Pearson Education](#). He is an ASE-certified Master Technician with more than 20 years instructional experience.