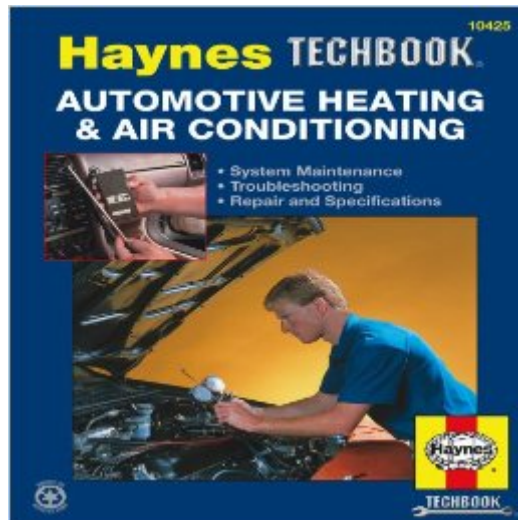


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# Haynes Techbook Automotive Heating & Air Conditioning



## Synopsis

Written for the do-it-yourselfer, good enough for the pro. Includes everything you wish to know about your vehicles heating and air conditioning. From simple adjustments, to complete tune-ups and troubleshooting.

## Book Information

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## Customer Reviews

Like the majority of HAYNES manuals, this is a very decent source for the do- it- yourself-er when addressing the a/c needs for your ride. This 2011 edition covers vehicles up to about 2007 and has a few more pages than the previous editions. I had gone to AZone to look at their manuals and those were the 1993 edition of this manual (if the book is sealed with plastic but pages are yellowed, chances are it's an old edition, trust me on that one). The AZone version was published about 18 years ago and it's just not up to date enough to cover today's do- it- yourself repairs, which have come a long way with recharge kits, etc. While some of the info is still applicable of course, that version was published just as cars were switching to R134a from R12. This 2011 version still covers that conversion, but in much better detail via a step by step process. This edition also has flow charts that walk you through what to do next, e.g. "is the blower motor working?" yes -> "check the circuit" or no -> "check the compressor". There is a section on troubleshooting with manifold gauges and leak detectors and statistics on how to interpret the readings depending on your vehicle. It

covers foreign and US cars and trucks. There's yet another picture chapter on how to service and repair accumulators, receiver/driers, condensers and compressors. This 2011 version is well worth the price of if you're considering tackling your car's a/c, which can run into the thousands. Plus if you're up to snuff on your car's system and still decide to have it repaired, the dealer can't rip you off because you're one step ahead of him. Good luck!! \*\*\*PS, please note the obnoxious comment from "pb" below - apparently the reader is bashing my review based on his year 2000 edition of this manual, not the the year 1993 edition of this manual. He's saying the year 2000 manual is identical to the 2011 manual, so now he's mad because he misread my review and ran out and bought the 2011 edition which has duplicate information. Unfortunately I can't comment on this, because my review is based on comparing the 1993 version to my 2011 version.\*\*\*

I went through this book after taking a 4 month mobile air conditioning course. It is in need of a serious update. It will spend pages on the R-12 systems, for instance Chapter 5, titled Service and Repair will spend many, many pages on R-12 service, - flushing the system, sight glasses - service valves - leaking testing - evacuation , and then they mention this new system called 134A. The 134A system has been around since the 1992-1995 time frame and your chance of running across a R-12 system is pretty slim. But, unfortunately auto a/c books are few except for some textbooks - as far as I can find. (I would welcome leads on 134A real world non-textbooks). So I kept it but it needs a rewrite.

The copyright date of 2011 would lead one to believe this manual is relatively current. However, it appears to be a reprint of the 2000 version with a few vehicle specs updated to 2007 (none later). Save your money.

Pros: It covers how AC works, parts, tools, troubleshooting, flushing, charging from empty. Enough for a DIYer with the a few hundred in tools to do an AC overhaul. It has tables for operating pressure, oil capacity and refrigerant capacity of domestic and imports through 2007 model years. The other material is still applicable to newer models, so if you have a newer car (and your AC broke already!) you can find the capacities for newer cars online. Cons: It reads like a combination of books which have been updated many times. I had deja vu several times thinking didn't I just read this chapter as there is a lot of repeated material between chapters. Bottom Line: I would buy it again. For the money it is seems to be the best deal on . It has given me the information I need to do a compressor replacement.

It provided the information I needed to understand how the car A/C works, but more importantly, what tools to use and how to use them to diagnose my A/C system, find the problem, get it fixed and get it up and running again. I didn't need it for any heating problem, but I'm pretty sure it will come in handy if I ever need the information.

The principals and theory on air conditioning is useful, and the troubleshooting problems using the manifold gages is also very helpful. However, the information is outdated. While the revision is in 2011, the specifications on vehicle oil and refrigerant capacity is until 2007. In other words there is no data for vehicles from 2008 to 2015 or 8 years. I would rather Haynes had focus more on 134a system because manufactures stop using R12 around 1995 or 20 years ago, and this book has a lot of information on R12 systems. I suggest waiting for a new revision or new materials on a new book.

This book is good to learn the basic understandings for older vehicles, but this did not help me with the newer vehicles that have expansion valves or dryers built in the condenser lines.

While it tries to cover everything involving heating and A/C in autos, it doesn't go into very much depth for any one system. Instead, it describes the different A/C systems, and how they work, but leave it up to you to figure out which system you have, and exactly how to go about fixing it. A quick reference as to which cars have what system would save a shadetree like myself quite a bit of time, just chasing around which chapters pertain to my car, and which do not.

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