

Automotive Air Conditioning Practical Tips For Techs

[#automotive AC repair](#) [#car AC maintenance](#) [#AC system troubleshooting](#) [#vehicle air conditioning service](#) [#AC technician tips](#)

Unlock essential knowledge for automotive AC repair with our comprehensive guide designed specifically for technicians. This resource offers practical tips on effective car AC maintenance, delves into common AC system troubleshooting techniques, and outlines best practices for professional vehicle air conditioning service. Enhance your skills and streamline your work with these invaluable AC technician tips.

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Automotive Air Conditioning Practical Tips For Techs

Automotive Air Conditioning Service Practical Tips for Techs - Automotive Air Conditioning Service Practical Tips for Techs by TheGibby3340 242 views 3 years ago 12 minutes, 31 seconds - Quick overview of the contents of a book published in 2017 by Thomas Brown. Many thanks to Mr. Brown for the kind permission ...

Intro

The Book

Contents

Overview

System Types

Leak Detection

Lubrication

Conclusion

AC Avalanche - Auto Air Conditioning 101 Made Easy - AC Avalanche - Auto Air Conditioning 101 Made Easy by AC Avalanche 3,019,447 views 8 years ago 5 minutes - www.ACAvalanche.com

This video represent a "Typical **Auto Air Conditioning**, System - How It Works" as well shows the potential ...

AUTOMOTIVE HOW TO: A/C SYSTEM DIAGNOSIS FOR BEGINNERS - AUTOMOTIVE HOW TO: A/C SYSTEM DIAGNOSIS FOR BEGINNERS by Rustbelt Mechanic 633,598 views 3 years ago 28 minutes - This is a beginners tutorial on how your **automotive**, (134a) **air conditioning**, system works. Hopefully this gives beginners and diy ...

HVAC Training Basics for New Technicians and Students! Refrigeration Cycle! - HVAC Training Basics

for New Technicians and Students! Refrigeration Cycle! by AC Service Tech LLC 582,030 views 1 year ago 6 minutes, 12 seconds - In this **HVAC**, Training Video, I Show the Basics of how Refrigerant Flows Through a System, Saturated Temperatures, Phase ...

Automotive A/C System Explained - Automotive A/C System Explained by globalpartsdist 97,343 views 4 years ago 3 minutes, 3 seconds - The 2 main A/C systems explained: Orifice Tube/Accumulator System vs. Expansion Valve/Drier System. SEE MORE ...

Orifice Tube

Expansion Valve Dryer System

Accumulator

Orifice Tube System

Automotive A/C Systems Explained: Learn How It Works! Best/Easiest Explanation! - Automotive A/C Systems Explained: Learn How It Works! Best/Easiest Explanation! by MrSubaru1387 50,960 views 1 year ago 11 minutes, 8 seconds - Please Like, Comment, and Share. Be sure to subscribe for future videos. Don't forget to hit the bell icon for notifications. YouTube ...

Car Ac Wiring Diagram || Car Air Conditioner Wiring Diagram || Autu Ac System - Car Ac Wiring Diagram || Car Air Conditioner Wiring Diagram || Autu Ac System by World Technicians 178,462 views 1 year ago 1 minute, 47 seconds - Car Ac, Wiring Diagram || **Car Air Conditioner**, Wiring Diagram || Autu **Ac**, System #carairconcleaning #CarAc #AutuAc.

How does car AC system work - How does car AC system work by We Are Mechanics 280,517 views 4 years ago 5 minutes, 55 seconds - The **air,-conditioning**, system in a **car**, works by manipulating refrigerant between a liquid and a gaseous state. As the refrigerant ...

How to Properly Recharge Your AC System - How to Properly Recharge Your AC System by ChrisFix 9,632,228 views 8 years ago 13 minutes, 9 seconds - Recharge your **AC**, system properly. I go though all of the steps on how to safely charge your **air conditioning**, system with ...

pull a vacuum on the ac system

the refrigerant

using hfc-134a

draws out any air and moisture

recharge your system with refrigerant

connect our low pressure

open the low-pressure side

replace the compressor

turn on the vacuum pump

let this sit for about an hour

continue to pull a vacuum for 45 minutes

sucking vacuum for 45 minutes

fill it with the correct amount of oil

lubricates the compressor

connect our adapter right to the refrigerant

purge the system of any air

building pressure at around 100 psi

suck out the refrigerant from the can

leave this valve open refrigerants

add the refrigerant

screw our caps back on to protect the schrader

Refilled Your Car or Truck's Air Conditioning but Still Hot? Easy Steps to Understand Your AC - Refilled Your Car or Truck's Air Conditioning but Still Hot? Easy Steps to Understand Your AC by 1A Auto:

Repair Tips & Secrets Only Mechanics Know 167,679 views 1 year ago 8 minutes, 42 seconds -

Have you refilled your **car**, or truck's **air conditioning**, but it's still blowing hot? Adding refrigerant to your **AC**, system is just a ...

Refilled Your Car or Truck's Air Conditioning but Still Hot? Easy Steps to Understand Your AC

The major components of the AC loop

Always properly recover refrigerant when working on the AC system!

Finding AC problems with a manifold gauge set

The AC Condenser is one of the biggest cause of AC not staying cold!

Other problems can break down the compressor, just replacing it isn't enough!

The AC cooling fan needs to be running for the system to work properly

SUBSCRIBE! Shop 1AAuto.com link below!

What Pressure Should my Car AC Be - How To Check Automotive R134a Air Conditioner - Recharge

Tips - What Pressure Should my Car AC Be - How To Check Automotive R134a Air Conditioner - Recharge Tips by Benjamin Sahlstrom 46,872 views 8 months ago 9 minutes, 15 seconds - In this video I show what the typical **AC**, pressures should operate around for a **vehicle**, using R134a refrigerant. I also talk about ...

Intro

Measuring R134a

Ambient Temperature

Quick Connect Fittings

R134a Adapters

Max AC Mode

Other Considerations

Outro

How to Vacuum Down and Recharge Your A/C System! - EASY - How to Vacuum Down and Recharge Your A/C System! - EASY by 2CarPros 897,238 views 3 years ago 19 minutes - Today we are showing you exactly how to vacuum down and recharge an **air conditioning**, system. This is a comprehensive video ...

Intro

How an AC System Works

AC Gauge Set

Refrigerant

Legal Method

Refrigerant Vacuum Pump

Vacuum Test

Refrigerant Keg

Refrigerant Line

Charge System

Outro

DIY- Troubleshooting No Air Conditioning - DIY- Troubleshooting No Air Conditioning by Schrodingers Box 1,097,600 views 7 years ago 16 minutes - Your favorite DIYer returns from prolonged absence to troubleshoot an **air conditioning**, problem that would have caused Scotty's ...

Doing This Will Make Your Car's AC Blow Twice as Cold - Doing This Will Make Your Car's AC Blow Twice as Cold by Scotty Kilmer 1,621,257 views 8 months ago 11 minutes, 10 seconds - Make your **car's AC**, system last longer. **AC**, system maintenance **tips**,. **Car advice**,. DIY **car**, repair with Scotty Kilmer, an **auto**, ...

How to Pull a Vacuum and Recharge Your AC System - ULTIMATE GUIDE - HVAC - How to Pull a Vacuum and Recharge Your AC System - ULTIMATE GUIDE - HVAC by TutorialGenius.com 281,379 views 2 years ago 25 minutes - USA (United States) Purchase Links ***** [**AC**, Manifold Gauges] - Both work great! AURELIO **TECH**, 3 Way A/C Diagnostic ...

Intro

Connecting the AC Manifold Gauges

Vacuum Pump Setup 1

A Note on PAG Oil

Vacuum Pump Setup 2

Pulling a Vacuum 1

Preparing the Refrigerant 1

Pulling a Vacuum 2

Preparing the Refrigerant 2

Preparing for Recharge

Recharging the AC System 1

Jumping the AC Compressor Clutch Relay

Recharging the AC System 2

Final Notes

How does a cars Air Conditioning system work? - How does a cars Air Conditioning system work? by GarageTech 1,136,625 views 7 years ago 7 minutes, 13 seconds - Hey, In this animation I explain the basics of how a vehicles **AC**, system works. I make reference to the pressure inside the system ...

Air Conditioning Compressor

Thermal Expansion Valve

The High Pressure System

NEVER Recharge Your Car's AC System Until Watching This! - NEVER Recharge Your Car's

AC System Until Watching This! by proclaimliberty2000 989,422 views 7 years ago 16 minutes - Disclaimer: Under no circumstances will proclaimliberty2000 be responsible or liable in any way for any content, including but not ...

What Type of Refrigerant Does Your Vehicle Take

Find the Low Port

Sight Glass

Where Your Compressors at

Pressure Gauge

Too Much Refrigerant in the System

Ford A/C Quick Tips #9: How to Spot an Overcharged Air Conditioning System - Ford A/C Quick Tips

#9: How to Spot an Overcharged Air Conditioning System by FordTechMakuloco 305,373 views 3 years ago 7 minutes, 2 seconds - In this video I show you exactly what overcharging your **cars air conditioning**, does to the pressures and ultimately the cooling.

Intro

Pressure readings

Overcharging

Pressures

AC System 101 Diagnosis & Repairing - AC System 101 Diagnosis & Repairing by DIYGarage bryangregorytv 461,391 views 6 years ago 7 minutes, 58 seconds - IN 1902, THE FIRST MODERN **AIR CONDITIONING**, UNIT WAS INVENTED BY WILLIS CARRIER IN BUFFALO, NEW YORK FOR ...

Automotive AC Diagnostics, Operation and Repair - Automotive AC Diagnostics, Operation and Repair by Ratchets And Wrenches 1,140,700 views 6 years ago 16 minutes - In this video I am going to show you how an **Automotive AC**, system works, how you can diagnose issues with it using an **AC**, ...

Refrigeration and Air-Conditioning Technician Video Series: Techniques, Safety and Best Practice - Refrigeration and Air-Conditioning Technician Video Series: Techniques, Safety and Best Practice by OzonAction 65,420 views 3 years ago 26 minutes - Full length version with voice over of the Refrigeration and **Air,-Conditioning Technician**, Video Series on Techniques, Safety and ...

BASIC TOOLS

COPPER TUBE HANDLING

Rolling off copper tube

Measuring and cutting the tube

Calibrating and deburring the tube

WARNING Note the difference between soft annealed and hard copper

FINAL STEP Sealing

Oiling

Flaring

BENDING COPPER TUBE

PRESS FIT CONNECTIONS

STEP 1 Components

STEP 2 Attach jaws into tool.

Preparing the tube

COPPER BRASS CONNECTIONS WITH SILVER BRAZING ALLOY

COPPER-COPPER CONNECTION WITH PHOSPHOROUS BRAZING ALLOY

LEAK DETECTION AFTER UNIT SET-UP: LEAK DETECTION SPRAY

LEAK DETECTION AFTER UNIT SET-UP: ELECTRONIC LEAK DETECTION

EVACUATION

REFRIGERANT CHARGING

REFRIGERANT RECOVERY

CONNECTING UNIT TO MANIFOLD GAUGE

WARNING: Wear refrigerant resistant safety gloves.

THERMAL INSULATION

CABLES

Car AC system animation - Car AC system animation by Learn Engineering 15,765 views 1 year ago 1 minute, 44 seconds - Compressor Power unit of the system that separates the low-pressure side from the high-pressure side Takes in low-pressure gas ...

Motor Age Webinar: How To Test And Diagnose An Automotive Air Conditioning System - Motor Age Webinar: How To Test And Diagnose An Automotive Air Conditioning System by Motor Age 138,409

views 2 years ago 3 hours, 12 minutes - airconditioning, #acfix #acnotblowingcold #enthalpy #r1234yf #acservice Are you still relying on pressure gauges and ...

Introduction

Mitchell1 Sponsor

Agenda

Homework

Preparation

Infrared Temperature Gun

Test Procedures

Research Door Open

Ambient Temperature

Pressure Comparison

Temperature Differences

Sensor Data

Component Temperature Data

Component Check

Condenser Check

Results

The Mobile Air Climate System

Condensation vs Subcooling

When and Where

Compressor

Heat Exchanger

High Tech Low Tolerance

A/C tools needed for doing automotive air conditioning - A/C tools needed for doing automotive air conditioning by Clifford Rice 44,512 views 6 years ago 21 minutes - Today i'm going to you the tools you need to fix your own **air conditioning**, in your **car**, Did you enjoy the video? Would you like to ...

I can't believe Mechanics don't know How to Recharge AC system correctly! - I can't believe Mechanics don't know How to Recharge AC system correctly! by NATES INTERACTIVE AUTO 3,243,670 views 2 years ago 7 minutes, 46 seconds - The Number 1 cause of **Car AC**, not working is such a easy fix. Some mistakes are so simple example performing the Recharge in ...

Intro

Refrigerant Coupling

Overcharging

IMPORTANT

Testing

How Professionals Recover & Recharge Your Vehicles A/C System - How Professionals Recover & Recharge Your Vehicles A/C System by FordTechMakuloco 272,671 views 7 years ago 10 minutes, 25 seconds - This is the A/C machine featured in this video- <http://amzn.to/266nw2L> In this video we go over how a professional uses an A/C ...

pulls all the air out of the system

inject oil into the low side port

start the charging process

The Trainer #7: Tips On Servicing Automotive Air Conditioning And Finding Those Leaks! - The Trainer #7: Tips On Servicing Automotive Air Conditioning And Finding Those Leaks! by Motor Age 12 years ago 10 minutes, 31 seconds - airconditioning, #acrepair #findacleak #r134a #r1234yf Today's mobile **air conditioning**, systems are doing more with a lot less.

prep the car for the test by setting the air conditioning

connect the test hose to the car service port

. look for any signs of trace dye in the fitting

try to locate the evaporator drain

sniffs out refrigerant leaks

keep the tip about 1 / 8 inch away from the surface

check around the bottom of hoses and joints

help you pinpoint the exact location of the leak

entering the case through the cabin air filter

install dye from the factory

inspect carefully with an additional focus on the area around the compressor

live interactive webcast on ac servicing issues

40 VACUUM PROCEDURE TIPS for HVAC Techs! Avoid Frustration and Save Time! - 40 VACUUM PROCEDURE TIPS for HVAC Techs! Avoid Frustration and Save Time! by AC Service Tech LLC 145,959 views 1 year ago 27 minutes - In this **HVAC**, Training Video, I Explain 40 Vacuum Method **Tips**, that You Should Know Before Installing an **Air Conditioner**, Heat ...

Standing Vacuum Test

Tip Number Two Is To Replace the Rubber Grommet in the End of the Vacuum Hose

Three Is Keep the Amount of Hoses to a Minimum

Eight Is To Set Apart a Certain Set of Vacuum Hoses

Valve Core Removal

12 Is To Make Sure To Pull the Valve Core from the Port before Doing Your Vacuum Procedure

16 Is You Can Add a Third Valve Core Removal Tool onto the System Support

Tip 21 Is To Keep the Manifold out of the Vacuum Setup

Tip Number 24 Is To Use a Vacuum Pump That Has Multiple Ports on the Top

25 Is Not all Vacuum Pumps Are Created Equal

Tip 28

29 Is Not all Vacuum Gauges Are Created Equal

30 Is You Want To Have this Vacuum Gauge Mounted As Close to the System Ports as Possible

If You Pull a Deep Vacuum Quickly Will Water Freeze within the Tubing

Triple Evacuation

Concerned about Water Freezing in the System

Prove that Your Vacuum Was Done Properly

How To 'Top Off' Your AC System - How To 'Top Off' Your AC System by EricTheCarGuy 2,009,921 views 7 years ago 16 minutes - Sometimes your **AC**, system might not be working as good as it should. Sometimes this is due to a low system charge. In this video ...

Relative Humidity

Ac Gauges

Find the High and Low Ports

Observe the Pressures

Piercing Type Valves

Vent Temperature

Disconnect the Gauge Set from the System

Refrigerant Bubbling

HVAC Automotive Complete Course - Air Conditioning System Operation - HVAC Automotive Complete Course - Air Conditioning System Operation by ADPTraining 3,776 views 5 months ago 1 hour, 43 minutes - HVAC Automotive, Complete Course - **Air Conditioning**, System Operation: This is a compendium of our **automotive HVAC**, series ...

Course Intro

Compressor Clutch Operation

Condenser Fan Circuit

Heater Repair

HVAC Auto Vacuum Repair

Auto HVAC Blower Circuit

Variable Displacement Compressors

Expansion Valve and Orifice Tube

Stuck Closed Electric Expansion Valve

Receiver Dryer

HVAC Software Pressure Analysis

LIN Bus Network for HVAC, Alternator and others

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