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1. 2018. People just do it anyway. Despite this new requirement, retailers are permitted to sell off their existing inventory of small cans that do not have the self-sealing valves, as long as they were purchased prior to Dec. Though not absolutely necessary, a gauge will help you recharge your A/C system more accurately, and reduce the chance of undercharging or overcharging (either of which will reduce cooling performance).A high pressure A/C gauge can be connected to the HIGH pressure service fitting, or a low pressure A/C gauge to the LOW pressure service fitting, or gauges can be attached to both fittings (that is what professional technicians do).NOTE: Some DIY recharging kits include a low pressure gauge on the service hose or on a trigger-grip style can dispenser. PAG oil YFor refrigerants R1234yf and R134a There are also various PAG oils with different flow characteristics (viscosities) for use with refrigerant R1234yf.What makes these PAG oils from the BEHR sales brand special is that they are not only suitable for use with the refrigerant R1234yf but can also be used with the refrigerant R134a. However, the rationale for also requiring R-134a to be recovered rather than vented is that it is a global warming gas, and therefore contributes to climate change. DO NOT add any more refrigerant.NOTE: The high and low pressure readings will vary depending on the system and ambient temperatures (higher temperatures cause higher system pressure readings). Refer to the vehicle manufacturer specifications for normal system operating pressures, and the total refrigerant capacity of the system. R-12 is no longer available to do-it-yourselfers (although some bootleg R-12 of questionable purity and quality is still coming into the U.S. from south of the border). Okay, now you can connect the recharge service hose and valve to a can of refrigerant.2. Turn the valve on the service hose to puncture the top of the can.3. SLOWLY turn the valve back out to release a small amount of refrigerant into the hose. The LOW side fitting is usually located on the suction hose or line that goes from the accumulator to the compressor. So if it is not engaging when you turn the A/C on, you may have to supply battery voltage directly to the compressor clutch using a fused jumper wire. no. This should cause the clutch to engage and the compressor to run.9. OPEN the valve on the service hose so refrigerant vapor will flow from the can into the A/C system. Also avoid skin contact with refrigerant. Late model vehicles with R-1234yf also have unique service fittings that are different from R-134a or R-12 systems.AIR CONDITIONING RECHARGE PROCEDURE1. /see information near A/B pillar VIN= Vehicle Identification Number Notes commercial vehicles (1) OE BEHR Compressor Unclia: PAG OIL UNIDAP PA0 68 or PAG ISO 46 Compressor Zexel: PAG OIL ZEXEL ZXL 100PG PA0 68 or PAG ISO 46 Compressor Sanden: PAG OIL SANDEN SP 20 PAO 68 or PAG ISO 100 Compressor Nippondenso: PAG OIL ND 8 PAO 68 or PAG ISO 46 Compressor Kiki: FUCHS RENISO PAG 46” PAO 68 or PAG ISO 46 Oil filling quantity “n.a.” = quantity unknown or not specified by the manufacturer Type of oil Application Notes PAG oilslor refrigerant R134a There are various PAG oils with different flow characteristics (viscosities) for use with refrigerant R134a. Leave the service hose attached to the can with the valve closed so you can save the refrigerant for a future recharge. Remember to replace the plastic caps over the service fittings, and remove the jumper wire from the compressor if you had to jump it to make it run.If THE A/C SYSTEM STOPS BLOWING COLD AIR AFTER A FEW DAYS, WEEKS OR MONTHSIIf your A/C stops blowing cold air several days, weeks or months after you recharged it, it means the system has a leak and the refrigerant is escaping. If your gauge has different color coded zones for R-12, R-134a and/or R-1234yf, make sure you are within the correct range for your type of refrigerant. 31. 2017. Is It Legal to Vent Old Refrigerant from your A/C system into the air when making repairs to your vehicle?Under former EPA rules, it was ILLEGAL for anyone (professional or DIY) to intentionally vent refrigerant from an A/C system into the air when servicing a vehicle. As PAG oils are hygroscopic, cans do not have a long shelf life once opened. Don't vent any left over refrigerant from the can. .7. Professional repair shops are required to have refrigerant recovery machines. Starting with model years 2014-2015 a growing number of vehicles now use a different type of refrigerant called R-1234yf. Former Behr HellaService reference no. Start the engine and turn the A/C on MAX/HIGH.8. NOTE: The compressor may not engage if the system is too low on refrigerant. Our latest filling quantity manual for refrigerant and A/C compressor oil provides the answer for the most common vehicle types. Which filling quantities apply to which vehicles? Most newer passenger car A/C systems do not hold much refrigerant (only 14 to 28 oz.), so you don't want to add too much if the system is low. The logic for doing this is to prevent older refrigerants such as R-12 that contain ozone depleting CFC compounds from getting into the atmosphere. When this information is published, previous versions lose their validity. Even so, you should be aware of the danger.5. Hold the can UPRIGHT so no refrigerant liquid enters the service hose. There are two: a LOW side fitting and a HIGH side fitting. Refer to the A/C information decal under the hood to make sure your A/C system is a R-134a system. 1 Condenser with round pipes 2 Condenser with flat pipes 3 Condenser 16 mm 4 Condenser 23 mm 5 Rear engine 6 Front engine 7 Expansion valve, old type 8 Expansion valve, new type 9 See sticker in engine compartment n.a Overall quantity for system not known or not specified by manufacturer - if appropriate, see sticker in the engine compartment or on the compressor q Quantity depends on version - see sticker in the engine compartment or on the compressor v Condenser 18 mm e Condenser 20 mm f Thickness of the condenser's flat pipe g Without oil radiator h Condenser module, dryer integrated in the condenser i

Orga/manua The gauge may have different color coded zones for different types of refrigerants. OPTIONAL BUT HIGHLY RECOMMENDED: You should use a gauge to monitor the recharging process. One can of R-134a typically holds 12 oz. . But the EPA rules also applied to R-134a, which does not contain any CFCs and are not an ozone depleting threat. The information in the following tables has been compiled using data from vehicle manufacturers and other sources, and it is applicable only to air conditioning systems in their original designs. If you are using a high or low pressure gauge (or both) to monitor recharging, look at the gauge(s).LOW pressure gauge: When the reading is between 25 and 40 psi with the A/C running, STOP. Only specially trained professionals should carry out work on air conditioning systems, taking into account the relevant safety precautions and country-specificlegislation.All rights reserved, including translation. For these applications, use R-1234yf only, never R-134a. On most 1994 and older passenger cars and light trucks, the original refrigerant was R-12. Use the same type of refrigerant that is already in the system unless you are converting an older R-12 system to R-134a or another refrigerant.WARNING: Flammable refrigerants are illegal. Showing 1-10 of 22 questions Sort by Most Helpful first Newest first Home, Auto Repair Library, Auto Parts, Accessories, Tools, Manuals & Books, Car BLOG, Links, Indexby Larry Carley copyright 2019 AAI.Car.comif your air conditioner is not cooling well because the system is low on refrigerant, recharging the system with refrigerant should restore normal operation. Make sure you are looking at the correct pressure range for the type of refrigerant you are using. DO NOT add any more refrigerant. The LOW pressure fitting is SMALLER than the HIGH pressure fitting. This will blow air out of the hose (which you do not want in your A/C system).4. PAG oils are hygroscopic. The machine must be hooked up to a vehicle BEFORE repairs are made to suck any residual refrigerant out of the system so that the vapors do not escape into the atmosphere when the A/C system is opened up to replace a component. Recharging will give you more quickly during hot weather than cooler weather. The wholesaler is not required to confirm any technician certification, but EPA is recommending that wholesalers obtain a statement certifying that the cylinders are to be resold to certified technicians.Individuals do not need to have certification in order to purchase small cans (under two pounds) of R-134a. Air Conditioning Related Articles:AC Frequently Asked QuestionsAir Conditioning Inspection ChecklistAC Cooling Problem: Blows Warm Air Only No Cool AirTroubleshooting Air ConditioningTroubleshoot Automatic Climate Control SystemAir Conditioning Service Best Practices (Procedures a repair shop should follow when servicing your A/C system)MACS Recommended AC Service Procedures (for professional technicians) (pdf file)AC Compressor FailuresCompressor PAG Oil Application ChartAC Condenser FlushingAlternative RefrigerantsNew Refrigerants & A/C SystemsFlammable RefrigerantsCalifornia proposes ban on R-134a sales to motoristsR-1234yf: The Newest Refrigerant for Late Model Cars and Trucks. When older vehicles with R-12 A/C systems need refrigerant, they can be refilled with recycled R-12 from other older cars (this requires taking your car to a repair shop for professional service), or with an alternative refrigerant other than R-12, or with R-134a (which requires certain modifications).CAUTION: Mixing different types of refrigerants is NOT recommended. On R-134a systems, the LOW and HIGH side service fittings are quick-connect style fittings. The operating pressure inside the A/C system when it is running may exceed the burst strength of the can, causing the can to explode! This should be impossible to do because the service hose for recharging the A/C system will only fit the smaller LOW pressure service fitting. Product Application Air conditioningcompressor type Refrigerant Viscosity class Contents MAHLereference no. Close the valve so no more refrigerant escapes, then quickly connect the other end of the service hose to the LOW pressure service fitting on the A/C system.CAUTION: DO NOT connect a can of refrigerant to the HIGH side service fitting. However, all cans produced after Jan. Besides, if your A/C system has a leak, chances are most or all of the refrigerant has already leaked out so there is nothing left to vent.UPDATE: As of March 2020, the EPA has revised its venting and recovery rules. The EPA published a new rule revising its previous rules that prohibited the venting of all refrigerants into the air when servicing a vehicle, whether or not they contain CFCs or global warming gases. PAG oil YF is suitable for both R1234yf and R134a refrigerants. You should add some leak detection dye to the system to find the leak. It makes sense and is a good thing to do. The compressor must be running to suck refrigerant through the service hose into the system. PAO 68 oilfor refrigerant R134a, and in some cases for refrigerant R1234yf and others (can be used as an alternative to the various PAG oils that are offered for R134a (has the advantage of not being hygroscopic—i.e., in contrast to other oils, it does not absorbany moisture from the ambient air). It may take up to 10 minutes or more per can to suck all of the refrigerant out of the can into the A/C system. As the material is extensive,we cannot guarantee the correctness of all the information. Standard PAG oils are not suitable for refrigerant R1234yf or for electrically driven air conditioning compressors. The AAI clear version of PAO 68 oil (withoutleak detecting agent) can also be used with thenew refrigerant R1234yf as well as in electricallydriven air conditioning compressors in hybrid and electric vehicles. PAG oil SP-A2for refrigerants R1234yf and R134a For use in electrically driven air conditioning compressors that have been filled ex workswith a special PAG oil. Use R-134a in R-134a systems only, and use R-1234yf in newer R-1234yf systems only. Look for a single wire connector near the front of the compressor, unplug it and hook up a jumper wire to the battery POSITIVE terminal. 1. must come equipped with a self-sealing valve capable of preventing the container from venting refrigerant after it is removed from the charging valves. Do NOT intermix different types of refrigerant. Feel the air coming out of the A/C ducts inside the vehicle. CLOSE the valve on the can of refrigerant before disconnecting the service hose from the LOW pressure fitting (in case there is any refrigerant left in the can). This means that cans do not have a long shelf life once opened. The EPA rules also require recovery of R-1234yf, but the rationale is less clear because R1234yf is neither an ozone depleting gas nor a global greenhouse gas.Obviously a DIYer has no access to a refrigerant recovery machine so the issue of whether or not is acceptable to vent refrigerant when repairing an A/C system is moot. The wrong choice can lead to damage Vehicle- or manufacturer-specific instructions must be followed carefully. If the gauge is over 50 psi, you have overcharged the system with too much refrigerant. . DO NOT use any other type of refrigerant in these vehicles. High pressure gauge: When the reading gets up around 200 to 225 psi (R-12), or225 to 250 psi (R-134a), STOP. If the purchaser is not certified and is buying the refrigerant on behalf of a service facility, the seller must be presented with evidence that one or more technicians at the facility are certified.Refrigerant wholesalers must retain an invoice listing the name of the purchaser, date of sale and quantity purchased. The system is fully charged and should be cooling normally. PAG oil Vehicle air conditioning systems* All types** R134a PAG I (ISO 46) 250 ml ACPL 19 000P 8FX 351 213-031 Vehicle air conditioning systems* All types** R134a PAG II (ISO 100 250 ml ACPL 20 000P 8FX 351 213-051 Vehicle air conditioning systems* All types** R134a PAG III (ISO 150) 250 ml ACPL 21 000P 8FX 351 213-041 PAG YF oil Vehicle air conditioning systems* All types** R1234yf,R134a PAG I (ISO 46) 250 ml ACPL 22 000P 8FX 351 213-121 Vehicle air conditioning systems* All types** R1234yf,R134a PAG I (ISO 100 250 ml ACPL 23 000P 8FX 351 213-131 PAG SP-A2 oil Air conditioning systems inhybrid and electric vehicles Electrically driven compressors filled ex works with special PAG oil R1234yf,R134a PAG I (ISO 46) 250 ml ACPL 9 000P 8FX 351 213-141 PAO 68 oil Vehicle air conditioning systems* All types (except vane compressors) R1234yf,R134a,R413a,R22,R513a AA1 (ISO 68)AA1 (ISO 68)AA1 (ISO 68) 500 ml1.0 L5.0 L ACPL 11 000PACPL 14 000P 8FX 351 214-0318FX 351 214-0218FX 351 214-101 Air conditioning systemsin hybrid and electric vehicles Electric compressors R1234yf,R134a,R513a Refrigerated trucks (fresh produce delivery vehicles) Reciprocating compressors** R1234yf,R134a,R507a,R500,R513a Refrigerated trucks (frezer vans) Reciprocating compressors** R507a,R500,R513a,R22 Vehicle air conditioning systems* Vane compressors** R134a,R413a,R513a AA3 (ISO 100) 1.0 L ACPL 13 000P 8FX 351 214-061 PAO 68 Plus UV oil Vehicle air conditioning systems* All types** (except vane compressors) R134a,R413a,R22 AA1 (ISO 68)AA1 (ISO 68)AA1 (ISO 68) 500 ml1.0 L5.0 L ACPL 15 000PACPL 16 000PACPL 17 000P 8FX 351 214-2018FX 351 214-2118FX 351 214-221 Refrigerated trucks (fresh produce delivery vehicles) Reciprocating compressors** R134a,R507a,R500 Refrigerated trucks (frezer vans) Reciprocating compressors** R507a,R500,R22 Vehicle air conditioning systems* Vane compressors** R134a,R413a AA3 (ISO 100) 1.0 L ACPL 18 000P 8FX 351 214-281 * Passenger cars, trucks, and agricultural and construction machinery** Except for electric air conditioning compressorsThe appropriate air conditioning compressor oil is determined on the basis of the air conditioning compressor type and the refrigerant used. This can usually be done with a few cans of refrigerant and a simple service hose connection.AC RECHARGING PRECAUTIONSFirst, wear safety glasses to protect your eyes. The leak should then be repaired before the system is recharged again, otherwise you are just wasting your time recharging the system over and over again.Update: December 2017New Restrictions for Selling R-134a Start January 2018For entities selling or distributing refrigerants for use in motor vehicles, there will be new restrictions for R-134a and other substitute refrigerants sold after Jan. The rule establishes certification requirements for buying large containers of refrigerant and mandates that small containers include a self-sealing valve.Under the new requirements, anyone purchasing a substitute refrigerant for R-12 in a greater-than-two-pound container must provide the seller with evidence that the technician has a Section 609 Technician Certification. DO NOT use any type of flammable refrigerant (propane, butane or flammable hydrocarbons).For more information, see Flammable RefrigerantsClick here for more information about retrofitting older vehicles with R-12 A/C systems to R134a.LOCATE THE SERVICE FITTINGSNext, you need to locate the service fittings on the A/C system. You only want VAPOR to be pulled into the A/C system (the compressor may be damaged if it sucks in a big dose of liquid!).6. If the system needs more refrigerant after adding one can, you can add a second can. R-12 still shout NOT be vented and should be recovered, but now apparently it is okay to vent R-134a and R1234yf during servicing procedures. No recovery is required.The new rule also eliminates previous regulatory requirements regarding leak inspection and repair for R-134a and R-1234yf because both do not contain ozone depleting CFC chemicals. .Click Here to view the latest EPA rules regarding venting of refrigerants.The EPA also issued a proposed rule that would adopt three technical standards developed by the SAE International for AC recovery and recycling equipment for R-1234yf. No part of this table may be reproduced in any form—mechanical, electronic, photocopy, microfilm, or otherwise, including extracts thereof—without our written permission. This information has been compiled carefully. The HIGH side fitting is located on the line that goes from the compressor to the condenser. On older R-12 systems, the LOW and HIGH pressure service fittings are screw-type schrader valves. It should be getting colder.10. The two different PAO 68 oils offered by MAHLE under the BEHR sales brand (AA1 and AA3) can be used in conjunction with numerousdifferent refrigerants (see product overview). The low pressure cutout switch will prevent the compressor from running if the system is too low on refrigerant (this is done to protect the compressor from damage due to a lack of proper lubrication). The chilling effect of spilled refrigerant can cause instant frostbite on bare skin or eyes!WHAT TYPE OF REFRIGERANT?Next, you need to figure out what type of refrigerant your vehicle requires:On 1995 and newer passenger cars and light trucks up to about 2015, the correct refrigerant is R-134a. of refrigerant.11. First, make sure you have the correct refrigerant for your vehicle. Update on R-134a Retrofit Click Here To See More Carley Automotive Technical ArticlesMitchell 1 DIY eautorepair manuals Be sure to visit our other websites:AA1Car Diagnostic HelpAuto Repair YourselfCarleySoftwareOBD2HELP.comRandom-Misfire.comScan Tool HelpTROUBLE-CODES.comThe new rule would require this equipment to meet the following updated SAE standards :J2843 Recovery/recycling/Recharging Equipment for Flammable Refrigerants for Mobile Air-Conditioning Systems. J2851 "Recovery Equipment for Contaminated R-134a or R-1234yf Refrigerant from Mobile Air Conditioning Systems."J3030 "Automotive refrigerant Recovery/Recycling/Recharging Equipment Intended for use with Both R-1234yf and R-134a Click Here to Download or Print This Article. CLOSE the valve on the service hose, then disconnect the hose from the empty can, screw a new can onto the service hose valve, turn the valve to puncture the new can, then turn the valve all the way back out again so refrigerant can flow through the hose into the A/C system.When you have finished, turn the engine off.

Subaru's EE20 engine was a 2.0-litre horizontally-opposed (or "boxer") four-cylinder turbo-diesel engine. For Australia, the EE20 diesel engine was first offered in the Subaru BR Outback in 2009 and subsequently powered the Subaru SH Forester, SJ Forester and BS Outback.The EE20 diesel engine underwent substantial changes in 2014 to comply with Euro 6 emissions standards - ... Research in the IDM is led by over 34 independent principal investigators in the basic, clinical and public health sciences, and has a strong translational focus. Grant and contract funding is sourced from the US National Institutes of Health, the Bill & Melinda Gates Foundation, The Wellcome Trust, EDCTP, the South African Medical Research Council, the National Research ... Custom Essay Writing Service - 24/7 Professional Care about Your Writing

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