Feasibility Report on Instructions of How to Change Your Air Filter for Your Car  
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**Introduction**

***Purpose***

The purpose of this report is to assess the feasibility of changing your car’s air filter compared to getting it changed by a professional mechanic.

***Problem***

Air is required for an engine in a car to run. The air mixes with the gases and spark is given by spark plug and together we get internal combustion. Now for a car engine to run efficiently the air that goes inside must be as clean as possible. But the problem is that the outside air is filled with various pollutants which makes it dirty and is not suitable for internal combustion to occur. So, what is the solution? That is where an air filter comes into the picture. Most air filters are rectangular and consist of porous materials that make up the filters. The filter prevents dirty air from entering the engine. The air with pollutants is filtered and we get clean air entering the engine. For a car’s engine to run efficiently, air filters are supposed to be changed regularly. There are several reasons to replace air filters regularly. A few reasons are prolonged engine life, reduced emissions, and increased fuel efficiency. On average one should change filters once a year or every 12,000 miles, but the real problem is how much would it cost to change an air filter? On average a professional mechanic will charge around $18-$25 to change your car’s air filter. Surprisingly, the cost is close for an oil change which is charged around $20. In reality, the cost of the air filter itself is $10, but what gets the price to be lower? The answer is labor. That alone is what causes an increase of $8-$15 when it comes to replacing an air filter for a car. As a practical solution, Brett decided to change the air filter without any help of a mechanic, and he came up with a simple set of instructions to be followed. This will help save a lot of money and most importantly one can change their filter, and free of cost anytime and anywhere. Most of the mechanics will try to tell you that the process of changing air filter is quite complicated and might take a while, but in reality, Brett claimed that it is not hard at all! The first step is to buy your filter which will cost around $10-$13. The next step is to open your hood and locate the air filter box. After that, open the air filter box and remove the dirty air filter. Furthermore, check the old filter. Finally, put in a new air filter and close the air filter box.

***Scope***

Air filters present in all cars act as a basis for a car's engine to run efficiently. The instructions for changing the air filter will be evaluated using the following criteria of cost and time.

**Criteria 1 - Cost**

***Explanation***

The cost is the price required to change the car’s air filter. The air filter is changed once a year or once every 12,000 miles and can have an impact on whether or not the solution is feasible to most people.

***Data***

The cost required to change the air filter by following by an outside source like a professional mechanic range between $38-$45.

***Interpretation***

The cost stated by Brett will save you approximately $10-$15 which is low compared to the cost charged by a professional mechanic. The cost of changing the air filter is estimated to be cheaper.

**Criteria 2 - Time**

***Explanation***

Time tells us how long it takes for this process to get completed. The time required to change the air filter is exaggerated by mechanics as an excuse to charge you more for their services.

***Data***

Brett analyzed the process and concluded the time required to change the air filter by yourself is approximately a minute.

***Interpretation***

The time required to change the air filter is quite impactful on whether or not it is feasible. Depending on the automobile, it could take any individual anywhere from twenty minutes to an hour to complete the task, depending on a person’s abilities and available tools.

**Conclusion**

***Summary***

This article outlines five steps to change your car’s air filter. Due to the mechanics of a car, it states that changing your air filter will increase fuel efficiency, reduce emissions, and preserve the engine life. It also suggests to change the air filter every 12,000 miles or once every year.

***Conclusions***

Based on the information that Brett provided in this article, it is safe to conclude that changing the air filter on a car yourself is more time and cost-efficient than having it done by a local mechanic or dealership. Although changing the air filter yourself allows for mistakes, the process is straightforward enough so that your success is insured as long as you follow the instructions.

***Recommendation***

The instructions do a good job of describing the use and function of air filters in automobiles. By using an informal approach the writer does not give off a tone that they are an expert, but they do sound knowledgeable.

**Contact**

For more specific information on how to change an air filter in your car, consult advice from your local mechanic or various online resources such as automotive forums and YouTube.

**Documentation**

This report addresses the feasibility of the instructions provided by www.artofmanliness.com on how to change an air filter on a car. A link to the article will be provided in the “Appendices” section of this document.

**Appendices**

Brett. “How to Change Your Air Filter.” *The Art of Manliness*, 27 May 2018, [www.artofmanliness.com/articles/how-to-change-your-cars-air-filter/](http://www.artofmanliness.com/articles/how-to-change-your-cars-air-filter/).