

Unit Standard **15373**

Demonstrate knowledge of air conditioning

Level 3 Credit 4 v3

Student Name:

School:

Date:

Marked By: _____ **Mark** _____ **%**

Feedback: **Excellent work**

Good work

Please attempt all questions

Please resubmit

USEFUL WEBLINKS

Air Conditioning Principles

<http://youtu.be/XyyYA3n4MSc>

<http://youtu.be/zalg5VyPvjk>

<http://youtu.be/2wZb6HgIDE0>

<http://youtu.be/lqHzI59QyLA>

Air Conditioning Components

<http://youtu.be/wI7DpGCcRj8?list=PL7B04335C88B8762E>

<http://youtu.be/mRC0dYZiRqg>

<http://youtu.be/nHZEAE08sE8>

Greenhouse Effect

<http://youtu.be/5zLuqSYF68E>

<http://youtu.be/RHrFBOU16-8>

<http://youtu.be/T-sy6rPJBj4>

Heat Transfer

http://youtu.be/Atnjo7dD_bA

Manifold Gauge

<http://youtu.be/zQgrwqf4Nmk>

<http://youtu.be/xGQ1OwqEppU>

<http://youtu.be/95RdGLFIbL8>

Air Conditioning Checks

<http://youtu.be/UW1GDiOa0kE>

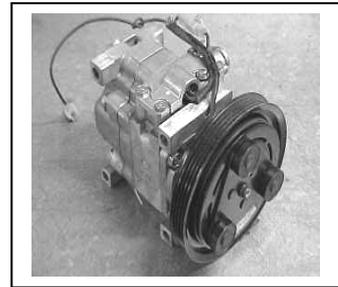
Recovery

<http://youtu.be/vmmg21sjxs0>

9. Identify each of the following components and briefly explain the purpose of each.

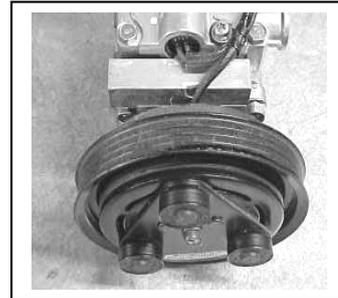
Component

Purpose



Component

Purpose



Component

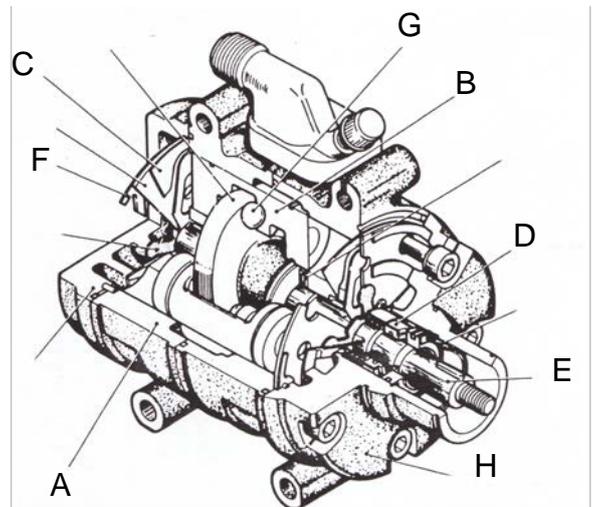
Purpose



10. List three functions of a receiver-drier.

11. List three types of air conditioning compressors.

12. Identify the components listed A-H in the following diagram.



13. Explain in your words the main function of a thermostatic expansion valve.
14. What is PAG an abbreviation of?
15. Explain why it is important that air conditioning units fitted to vehicles are operated for at least five minutes each week.

16. List five checks that must be carried out on compressor during servicing.

17. What is the most likely cause of the presence of oil streaks on the inside of a sight glass?

18. List four readings that must be considered when testing the performance of an air conditioning system.

19. List three possible causes of compressor malfunction.

20. List three air conditioning components that must be replaced after a compressor failure and system flush.

21. List five safety precautions that must be observed when flushing an air conditioning system.

22. What are the rules that apply in New Zealand that relate to how refrigerant is recovered from a vehicle?