

# RV Service Technician

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1. What does an automatic transfer switch do in an RV's electrical system?  

<input type="radio"/> (A) Moves all electrical power from the front of the coach to the rear.	<input type="radio"/> (B) Transfers all engine power to the house batteries.
<input type="radio"/> (C) Is only used with battery charging devices.	<input checked="" type="radio"/> (D) Allows only one power source to the vehicle's circuitry at a time.
2. What is the primary purpose of Darco tape in RV construction?  

<input type="radio"/> (A) To insulate the RV	<input checked="" type="radio"/> (B) To repair holes in underbelly material
<input type="radio"/> (C) To attach siding	<input type="radio"/> (D) To seal windows
3. What type of DSI board is used by Dometic to resist damage and corrosion?  

<input type="radio"/> (A) Open	<input type="radio"/> (B) Unpotted
<input type="radio"/> (C) Sealed	<input checked="" type="radio"/> (D) Potted
4. Explain the implications of gas valves being non-repairable in pilot water heaters. What does this mean for maintenance practices?  

<input type="radio"/> (A) It implies that gas valves can be repaired by any technician.	<input type="radio"/> (B) It suggests that gas valves can be easily fixed by the owner.
<input type="radio"/> (C) It means regular maintenance is unnecessary.	<input checked="" type="radio"/> (D) It indicates that if a gas valve fails, the entire unit must be replaced.
5. When a propane cylinder has been re conditioned after its expiry date, or if air has entered the cylinder it has to be purged to remove what.  

<input type="radio"/> (A) Remove CO <sub>2</sub> and O <sub>2</sub>	<input type="radio"/> (B) Remove CO and CO <sub>2</sub>
<input checked="" type="radio"/> (C) Remove O <sub>2</sub> and H <sub>2</sub> O	<input type="radio"/> (D) Remove N <sub>2</sub> and O <sub>2</sub>
6. Which of the following is NOT a good reason to replace a belt.  

<input type="radio"/> (A) tears and splits	<input type="radio"/> (B) signs of oil soaking
<input checked="" type="radio"/> (C) squealing or chirping	<input type="radio"/> (D) worn or glazed edges

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7. What does the acronym FRP stand for in the context of RV construction materials?
- ☐ (A) Flexible Reinforced Product      ☒ (B) Fiber Reinforced Plastic
- ☐ (C) Fiber Reinforced Polymer      ☐ (D) Foam Reinforced Panel
8. What are two methods used to prevent overfilling of propane containers?
- ☐ (A) Sight valve and by-pass valve.      ☒ (B) Weight and fixed liquid level gauge.
- ☐ (C) Pressure relief valve and high pressure pigtail.      ☐ (D) Overfill Protection Device (OPD) and regulator.
9. Washer - Top Loader. When the At washes it "Hums". Why ?
- ☐ (A) 1. Bad Inlet Water Valve  
2. Bad Pressure Switch      ☐ (B) 1. Bad Speed Control Board  
2. Bad Motor
- ☒ (C) 1. Bad Motor  
2. Bad Motor/ Pump combined      ☐ (D) 1. Bad Inlet Water Valve  
2. Bad Pressure Switch
10. Explain the relationship between plumbing vents and P-traps in an RV's wastewater system, detailing how proper venting maintains the P-trap's water seal.
- ☒ (A) Vents allow air into the plumbing system, preventing a vacuum that could siphon water out of the P-trap, thus maintaining the water seal that blocks sewer gases.      ☐ (B) Vents filter out solid waste before it enters the P-trap.
- ☐ (C) Vents add pressure to the system to force waste through the pipes more quickly.      ☐ (D) Vents heat the water in the P-trap to prevent freezing.
11. Explain the role of the thermocouple in the pilot safety assembly of a water heater.
- ☐ (A) It provides power to the pilot burner.      ☐ (B) It regulates the water temperature.
- ☐ (C) It acts as a filter for the water supply.      ☒ (D) It detects the presence of a flame and ensures gas flow is stopped if the flame goes out.
12. What should be checked at the electrode during maintenance of an RV air conditioner or water heater?
- ☐ (A) The thermostat settings      ☒ (B) Wiring and the electrode itself
- ☐ (C) The water pressure      ☐ (D) The refrigerant levels

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1003. Explain why stressing the brake hose during installation can lead to its failure.
- ☐ (A) It prevents the hose from fitting properly in the brake system.
  - ☐ (B) It increases the friction between the hose and surrounding components.
  - ☐ (C) It causes the hose to expand and contract excessively.
  - ☒ (D) It creates weak points in the material that can lead to leaks.
1004. What is the primary role of the condenser in the refrigeration cycle?
- ☐ (A) Compresses the refrigerant into a vapor.
  - ☐ (B) Releases heat from the refrigerant to the outside air.
  - ☐ (C) Absorbs heat from the inside air.
  - ☐ (D) Filters impurities from the refrigerant.
1005. An RV technician needs to transfer propane from a damaged cylinder to a new one. Besides the POL fitting, what other safety precautions should the technician take to prevent accidents during the transfer?
- ☐ (A) Work in a confined space to contain any potential leaks, use any available tools, and ignore minor hissing sounds.
  - ☐ (B) Quickly complete the transfer to minimize propane exposure, avoid wearing gloves, and assume the fittings are leak-proof.
  - ☐ (C) Transfer propane near open flames to quickly burn off any excess gas, wear cotton clothing, and skip leak checks to save time.
  - ☒ (D) Ensure proper ventilation, eliminate ignition sources, wear appropriate PPE, and check for leaks after the transfer.
1006. While starting a boiler, the technician notices that gas pressure is normal when the burner is OFF mode, however it is well below normal when the burner is ON. A possible cause to this problem may be \_\_\_\_.
- ☐ (A) the orifices to the burner are all plugged
  - ☐ (B) the pilot light is out
  - ☒ (C) the gas regulator's vent line may be plugged
  - ☐ (D) the combustion is too low
1007. If a technician is troubleshooting a mercury-free oven system and finds that the oven is not heating, what could be a potential cause related to the thermostat?
- ☐ (A) The oven's igniter is faulty and needs replacement.
  - ☐ (B) The safety valve is stuck closed, blocking gas flow.
  - ☒ (C) The thermostat may be malfunctioning or incorrectly calibrated, preventing it from signaling the heating element to activate.
  - ☐ (D) The oven's electrical supply is disconnected.

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1008. On a dryer if the power is fine, the plug is fine, and there is no power what should you check next

- ☐ (A) The selector switch
- ☒ (B) The door switch
- ☐ (C) The vibration switch
- ☐ (D) Neither

1009. What could cause a whining noise from the power steering pump during vehicle operation?

- ☐ (A) Faulty power steering cooler
- ☐ (B) Worn out steering rack
- ☐ (C) Damaged steering column
- ☒ (D) Low power steering fluid

1010. Describe the significance of the electrode assembly in the operation of a DSI furnace.

- ☐ (A) The electrode assembly regulates the temperature of the water heater.
- ☒ (B) The electrode assembly is crucial as it ignites the propane, enabling the furnace to produce heat.
- ☐ (C) The electrode assembly filters air for combustion efficiency.
- ☐ (D) The electrode assembly controls the safety devices in the furnace.

1011. Explain the role of a water heater relay in the operation of a pilot water heater.

- ☒ (A) It controls the 120V heating element.
- ☐ (B) It monitors the anode rod condition.
- ☐ (C) It activates the safety mechanisms.
- ☐ (D) It regulates the water temperature.

1012. What is the primary function of an ohmmeter in relation to electrical systems?

- ☒ (A) Testing resistance
- ☐ (B) Measuring voltage
- ☐ (C) Assessing capacitance
- ☐ (D) Calculating power

1013. Explain why grounding a switch in a pilot water heater can be considered unsafe.

- ☒ (A) It poses a risk of electric shock.
- ☐ (B) It can cause electrical shorts.
- ☐ (C) It can disrupt the water heating process.
- ☐ (D) It may lead to overheating.

1014. What is the function of the anode rod installed in a hot water storage tank?

- ☐ (A) to provide level control protection
- ☒ (B) to retard the effects of the electrolysis on the tank
- ☐ (C) to soften the water
- ☐ (D) to sense the water temperature for the aquastat control

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1015. Describe the role of a reversing valve in a heat pump system.

- ☐ A The reversing valve controls the temperature of an air conditioner.
- ☐ B The reversing valve is used to increase pressure in a water pump.
- ☒ C The reversing valve directs the flow of refrigerant, allowing the heat pump to switch between heating and cooling modes.
- ☐ D The reversing valve regulates water flow in a water heater.