

## 1 Diagrams

### Listening

6 Listen to a conversation between two electronics techs. Mark the following statements as true (T) or false (F).

- 1  The man is missing the service manual.
- 2  The woman suggests finding a detailed picture.
- 3  They decide to look at the schematic diagram for help.

7 Listen again and complete the conversation.

**Tech 1:** Well, it would be helpful if I could see a 1 \_\_\_\_\_  
\_\_\_\_\_.

**Tech 2:** Most manuals have diagrams in them. That one should, too. Check the index.

**Tech 1:** Yep, the 2 \_\_\_\_\_ has several different types of diagrams in it.

**Tech 2:** Great. 3 \_\_\_\_\_ of the components would be really helpful, don't you think?

**Tech 1:** You're right. Okay, so this manual has block, schematic, and 4 \_\_\_\_\_.

**Tech 2:** Well, block diagrams are the most 5 \_\_\_\_\_, \_\_\_\_\_ ones. I don't think that will be helpful.

**Tech 1:** Then what about the pictorial diagrams?

**Tech 2:** No, that's more for showing connections of parts. You need the 6 \_\_\_\_\_.

## 5 Choosing components

### Listening

6  Listen to a conversation between a new technician and an experienced technician. Mark the following statements as true (T) or false (F).

- 1  The woman is working on a computer.
- 2  Extra keyboards are kept in the basement.
- 3  The man suggests checking the stockpile for a keyboard.

7  Listen again and complete the conversation.

**New Tech:** Excuse me, Jack. I'm 1 \_\_\_\_\_ you while you're working, but I have a question.

**Experienced Tech:** That's okay. What do you need?

**New Tech:** I'm working on this computer. 2 \_\_\_\_\_ where I can find a keyboard for it?

**Experienced Tech:** We normally keep them in the storage closet.

**New Tech:** I already checked there but I didn't find any. Could they be somewhere else?

**Experienced Tech:** No. If they're not in there then 3 \_\_\_\_\_ have anymore.

**New Tech:** What should I do?

**Experienced Tech:** We have a whole 4 \_\_\_\_\_ machines downstairs. I think there are a few keyboards there.

**New Tech:** Will one of those work?

**Experienced Tech:** Yes. There's 5 \_\_\_\_\_ with them. We just couldn't use the actual computers anymore.

**New Tech:** Okay, well I'll 6 \_\_\_\_\_.

# 7

## Balancing the load

SMART IMPROVEMENTS MONTHLY - AUGUST

GCX\_5

Installation  
and Service  
Manual

### Listening

6 Listen to a conversation between two electricians. Mark the following statements as true (T) or false (F).

- 1 \_\_\_ The dishwasher needs to be disconnected from the panel.
- 2 \_\_\_ The woman believes that the electrical load needs balancing.
- 3 \_\_\_ Breakers may need to be transferred from the high side to the low side.

7 Listen again and complete the conversation.

**Electrician 1:** First, you'll need to find out the amperage of all the appliances and fixtures. Do you have the

1 \_\_\_\_\_ ?

**Electrician 2:** Yes, they're right here.

**Electrician 1:** Good. Next, you're going to 2 \_\_\_\_\_ \_\_\_\_\_ on each side of the main panel.

**Electrician 2:** Okay. So 3 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ tell us?

**Electrician 1:** Well, the totals on each side should 4 \_\_\_\_\_ \_\_\_\_\_, at least roughly.

**Electrician 2:** So I might need to transfer some of the breakers from the high side 5 \_\_\_\_\_ \_\_\_\_\_ ?

**Electrician 1:** 6 \_\_\_\_\_ \_\_\_\_\_. Try that and then run the dishwasher again.

## 1

## How GFCIs work

### Listening

6 Listen to a conversation between a homeowner and an electrician. Mark the following statements as true (T) or false (F).

- 1 \_\_\_ GFCIs are not very expensive devices.
- 2 \_\_\_ GFCIs should be tested every month.
- 3 \_\_\_ GFCIs are different from regular outlets.

7 Listen again and complete the conversation.

**Homeowner:** Is installing GFCIs really all that important?

**Electrician:** It's 1 \_\_\_\_\_ because they can prevent electric shock.

**Homeowner:** But don't all 2 \_\_\_\_\_ do that? Why are these so special?

**Electrician:** GFCIs are actually different. They compare 3 \_\_\_\_\_ and will shut off if the currents change.

**Homeowner:** But will it cost more to install them?

**Electrician:** GFCIs are actually 4 \_\_\_\_\_ devices.

**Homeowner:** How reliable are they?

**Electrician:** They're 5 \_\_\_\_\_ very reliable. But you should still test all your GFCIs regularly.

**Homeowner:** How often is that?

**Electrician:** Usually it's 6 \_\_\_\_\_.

## 2

# Types of GFCIs

## Listening

6 Listen to a conversation between two electricians. Mark the following statements as true (T) or false (F).

- 1 \_\_\_ It doesn't matter what type of GFCI is installed.
- 2 \_\_\_ Appliances like hairdryers will not trip a circuit.
- 3 \_\_\_ A standard GFCI device can be installed in a bathroom.

7 Listen again and complete the conversation.

Electrician 1: The 1 \_\_\_\_\_ is the last room we have to work on.

Electrician 2: 2 \_\_\_\_\_ of GFCI are we going to go with?

Electrician 1: Let me see ... it isn't 3 \_\_\_\_\_ in the work order.

Electrician 2: Well, what's the most 4 \_\_\_\_\_ to install?

Electrician 1: Actually, I think we should install what would 5 \_\_\_\_\_ in the bathroom. It's better to be safe than sorry.

Electrician 2: I guess you're right. Do you have any 6 \_\_\_\_\_?

Electrician 1: I'm thinking we should go with a receptacle ground fault circuit interrupter.

Electrician 2: That's a standard type to use for a bathroom, right?

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