FWMR
Owner's Manual

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Congratulations on your purchase of Black & Decker Universal Remote Control. Black & Decker Universal Remotes let you replace a broken or lost remote or combine more than one remote into one.

This remote control operates the common features of most but not all models and brands of Infrared (IR) Controlled Video Equipment. This remote may provide functions that are not available on your equipment. Some functions of your particular equipment (e.g. menu functions) may not be controlled by this remote. In such cases, use the original remote control for your equipment.

This remote also operates lights and appliances around your home when used with Freewire Home Automation Modules.

Please use this manual to become familiar with your Black & Decker Universal Remote. After you are familiar with your remote the first thing you need to do is to install batteries and setup your remote for your particular product and brand.

Thank you for buying a Black & Decker remote and we hope it will give you many years of service.

Introduction

FCC Caution

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

This equipment generates and uses radio frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturers instructions, it may cause interference to radio and television reception. It has been type tested and found to comply with the limits for remote control devices in accordance with the specifications in Sub-Parts B and C of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by unplugging the equipment, try to correct the interference by one or more of the following measures.

- Reorient the antenna of the radio/TV experiencing the interference.
- Relocate the interface with respect to the radio/TV.
- Move the interface away from the radio/TV.
- Plug the interface into an outlet on a different electrical circuit from the radio/TV experiencing the interference.
- If necessary, consult your local Dealer for additional suggestions.

NOTE: Modifications to any of the components in this kit will void the user's authority to operate this equipment.

VCR, DVD, TV, CBL/SAT
Selects product to be operated.
Mode Indicator Lights when mode buttons are pressed.

POWER Turns product On or Off.

MENU Access the Menu functions of the device you are controlling.

SETUP
For setup.

NUMBERS
Enter numbers for direct channel selection. Some products require Enter to be pressed after channel selection.
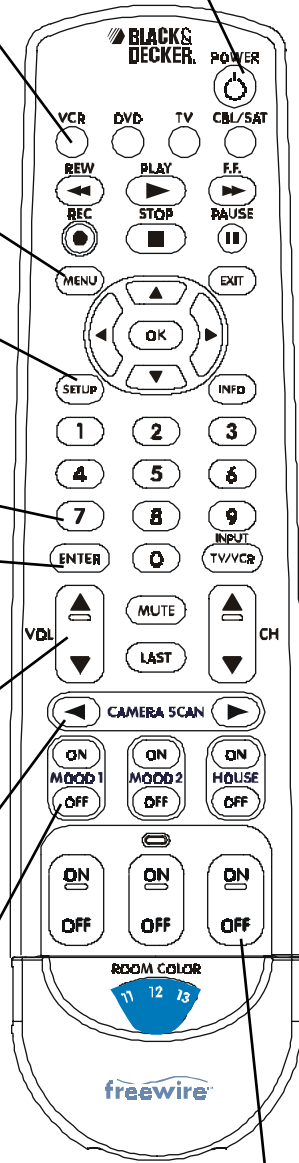
ENTER
Used after direct channel number entry to immediately change to the selected channel.

VOLUME UP/ DOWN Changes the volume level of the product, normally the TV.

SCAN buttons select the next or previous Freewire Camera.

MOODS 1 and 2 ON and OFF select the previously setup Freewire moods

Three ON/OFF buttons
These three buttons turn on and off Freewire Modules set to the room color numbers show through the opening on the lid below. In this example 11, 12, and 13.

Note: The **REC** button must be pressed TWICE to record from your VCR. For some brands of VCRs, you might need to press the **REC** button once, then press it again for three seconds.

RECORD, PLAY, STOP, REW, FF, PAUSE VCR control buttons operate your VCR even when the remote is set to operate the TV. Also operates DVD Scan -/+.

EXIT Used to exit menu functions.

INFO displays/selects on-screen channel information, etc.

TV/VCR/INPUT For some TVs, press repeatedly to select from available viewing sources (antenna, cable box, VCR, etc.).
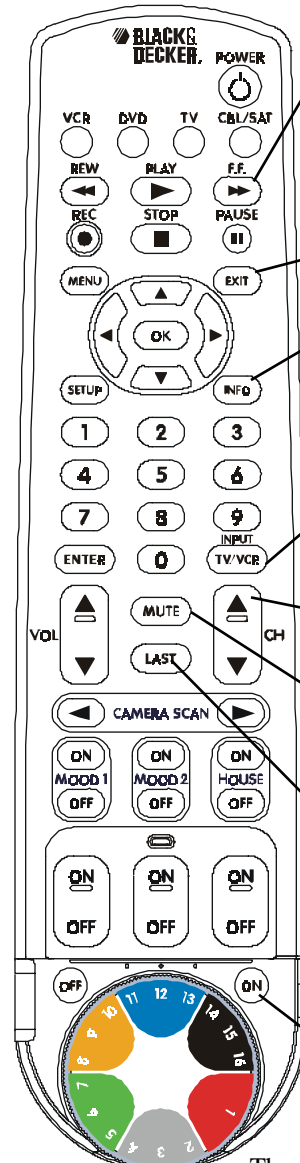
CHANNEL UP/ DOWN Changes the channels.

MUTE Turns off the TV sound while the picture remains.

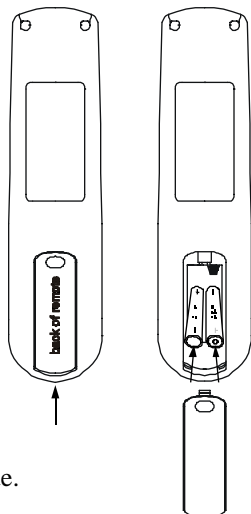**LAST** Returns to the previously selected channel.

Room ON/OFF buttons These two buttons turn on and off all three Freewire Modules set to the room color numbers shown through the opening on the lid below. Lid shown here removed.

Battery Installation

1. On the back of the remote, push down on the tab and lift the cover off.
2. Match the batteries to the + and - marks inside the battery case, then insert 2 AAA Alkaline batteries.
3. Press the battery cover back into place.

Power-On Default

The remote powers on in TV mode.

Battery Saver

Your remote automatically turns off if the buttons are depressed more than 30 seconds. This will save your batteries should your remote get stuck in a place where the buttons remain depressed (e.g., between the sofa cushions).

Code Saver

You will have up to 10 minutes to change the batteries in your remote without losing codes you have programmed. However, do not press any buttons until batteries are installed in the remote. If buttons are pressed without batteries in the remote, all codes will be lost.

TV Volume/Mute Punch Through Feature

The TV Volume/Mute punch through feature lets you control the Volume and Mute function of your TV in any mode programmed to be a VCR, DVD, CABLE or SAT device, without needing to change to TV mode.

VCR/DVD Punch Through Feature

This remote lets you Punch through to the last VCR or DVD device used. Normally other types of remotes only punch-through (from another Mode) on the 6 VCR buttons, to the device programmed under the **VCR** Mode button. This is not much use if you are using a DVD programmed under a Mode other than VCR. This remote punches-through to the last VCR or DVD device you used. For example, if you have 3 DVD/VCR devices programmed into this remote, the last one you accessed on the remote will be the one that has control of the 6 VCR/DVD buttons when in any other mode.
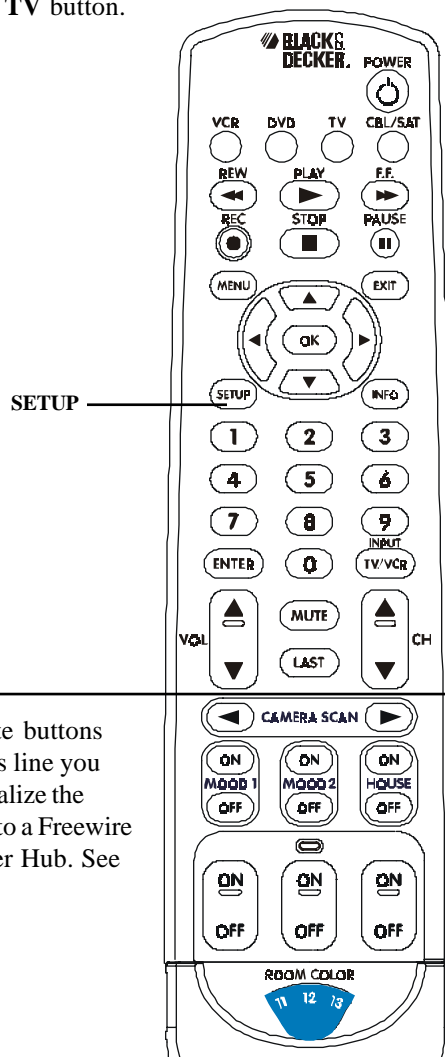
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Code Setup

The **SETUP** button is used to setup the remote to operate your TV, VCR, etc. You can either setup the remote using the code for your brand of product, from the code tables (on separate sheet), or you can search through the library of codes until you find a code that works for your product.

Please refer to "Programming with Code Search" on page 10 for more information on using the code search feature to learn how to search through the library of codes for your products.

NOTE: You can store any kind of code under any mode (except TV). I.E. you can store a VCR code under the **DVD** button, or a DVD code under the **CBL/SAT** button, etc. However, you can only store TV codes under the **TV** button.

SETUP

To operate buttons below this line you must Initialize the remote into a Freewire Messenger Hub. See page 14.

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DVD Functions

PLAY button is used to start Disc playback and for Menu selection on some DVD players.
STOP button stops Disc playback.
PAUSE button pauses Disc playback - press **PLAY** to resume.
INPUT activates the DVD Player's SETUP Menu.
INFO button brings up DVD Display or Control Menu for Chapter/Track/Title number, Time remaining/elapsed indication, system information, etc.
MENU brings up the DVD disc Menu screen - use with the **UP**, **DOWN**, **LEFT** & **RIGHT** navigation buttons.
OK button is used for on-screen Menu selection. Note some DVD players require the **PLAY** button to be used.
OK means same as SELECT - some manufacturers use OK label and others use SELECT label on their remotes.
EXIT button is used to Exit or Clear on-screen Menu displays.

TV/VCR/INPUT

When in TV mode the **TV/VCR/INPUT** button performs the INPUT source switch function.
When in a mode that has been programmed for VCR the **TV/VCR/INPUT** button performs the TV/VCR antenna switch function.
When in a mode that has been programmed for Cable the **TV/VCR/INPUT** button performs the A.B switch function.
When in a mode that has been programmed for SAT the **TV/VCR/INPUT** button performs the TV/SAT switch function.
When in a mode that has been programmed for DVD the **TV/VCR/INPUT** button performs the DVD Setup function.
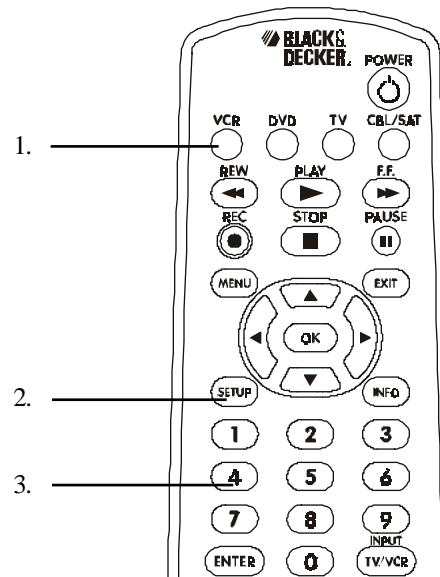
TV/VCR and TV/DVD Combo units

Note that for some TV/VCR and TV/DVD combo units you might need to set up two different buttons to control both parts of the combo unit. E.G., (referring to the Direct Code Entry section on the following page) you might need to set up a code under the **TV** button to control the TV part of the combo unit AND a separate code for the VCR or DVD under any other button you choose.

Direct Code Entry

1. Press and quickly release the desired mode button (**TV**, **VCR**, etc.).
2. Press and hold the **SETUP** button until the Mode buttons blink green, then the button you pressed in step 1 stays on, then release the **SETUP** button.
3. Enter the 3 digit code from the code tables (on separate sheet). Note: after a valid code entry, the green indicator turns off. For an invalid code, the green indicator flashes.
4. With your device on, press **CHANNEL UP**. If the device responds, no further programming is required. Note: If some buttons do not operate your equipment, try one of the other codes for your brand.

Write your codes down here for easy reference later.

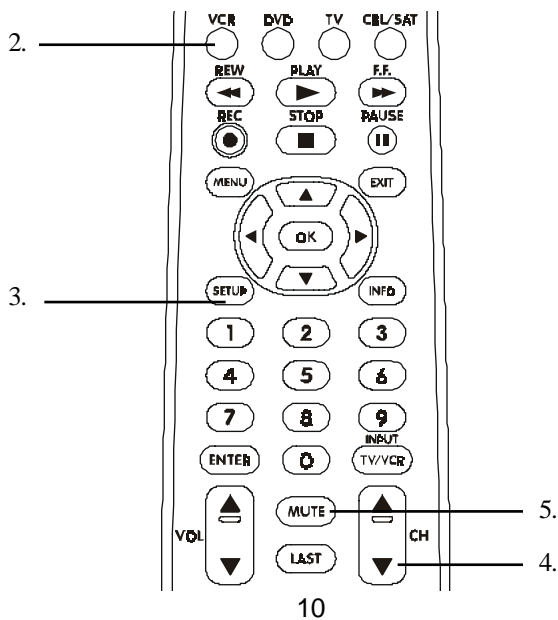| Type	Type stored	Code
VCR		
DVD		
TV	TV	
Cable		
SAT		

Programming with Code Search

If your product does not respond after you have tried all the codes for your brand, or if your brand is not listed, try searching for your code by following these steps.

1. Turn on the device (**TV**, **VCR**, etc.) to be controlled.
2. Press and quickly release the desired mode button (**TV**, **VCR**, etc.).
3. Press and hold the **SETUP** button until the Mode buttons blink green, then the button you pressed in step 2 stays on, then release the **SETUP** button.
4. Press the **CHANNEL UP** button repeatedly (up to 300 times) until the device to be controlled changes channel. The green indicator blinks off with each button press. If you accidentally overshoot the code required, press the **CHANNEL DOWN** button to backtrack through the library until the device changes channel. Pressing **CHANNEL UP** changes direction to forward again.
5. Press and release **MUTE** to install the code.

Most users will store VCR codes under the **VCR** button, DVD codes under **DVD**, etc. If (for example) you want to store a VCR code under **DVD**, first follow the procedure for Direct Code Entry (page 10) and press **DVD** in step 2 of Direct Code Entry, then enter ANY VCR code in step 3 of Direct Code Entry. Then follow the steps above for Code Search (or Brand Search, page 12).

Note: If the device does not have a **CHANNEL UP** button, use **PLAY** (VCR only) or **POWER** instead. Code Search starts from the currently stored three digit number under that mode.
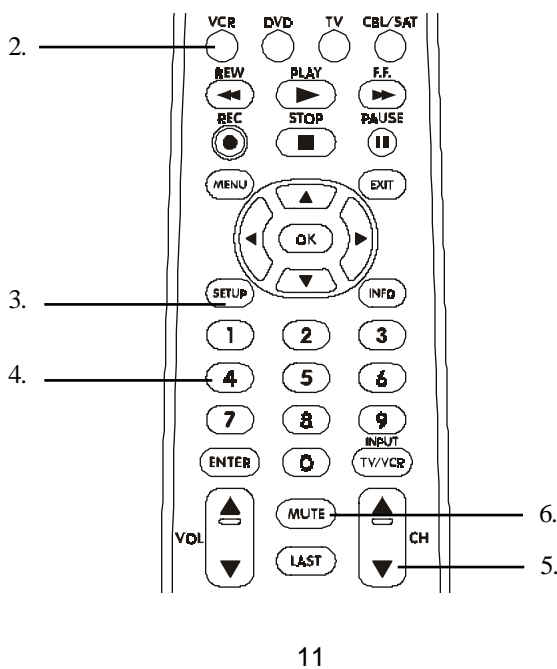

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Code Search by Brand

Lets you search for a code for a specific Brand within the Code Library for a particular manufacturer.

1. Turn on the device (**TV**, **VCR**, etc.) to be controlled.
2. Press and quickly release the desired mode button (**TV**, **VCR**, etc.).
3. Press and hold the **SETUP** button until the Mode buttons blink green, then the button you pressed in step 2 stays on, then release the **SETUP** button.
4. Press and release the numeric button (**0-9**) corresponding to desired Manufacturer (see table on next page). The green indicator blinks off once. Note, pressing "0" performs a full library search same as normal Code Search Method on previous page.
5. Press the **CHANNEL UP** button ((or **POWER** or **PLAY** (VCR only)) repeatedly until the device to be controlled changes channel. The green indicator blinks off with each button press. If you accidentally overshoot the code required, press the **CHANNEL DOWN** button to backtrack through the library until the device changes channel. Pressing **CHANNEL UP** changes direction to forward again.
6. Press and release **MUTE** to install the code.

Brand Search Method entry is now complete.

Note: When all codes under a Brand have been searched the red indicator flashes rapidly for 3 seconds.

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Brand Search Table

Look up your brand in the appropriate column (TV, VCR, etc.). Look to see what digit (1, 2, 3, etc.) applies to your brand, and enter it in step 4 of "Code Search by Brand" on the previous page.
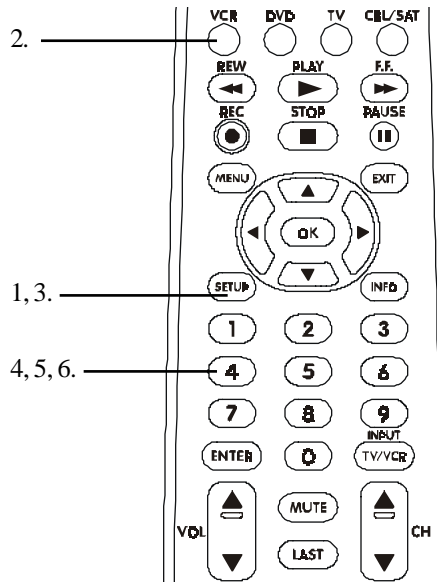
DIGIT	TV	VCR/DVD/DVR	CABLE	SAT/DBS	CD/AUDIO
1	RCA, GE, PROSCAN	RCA, GE, PROSCAN	SCIENTIFIC ATLANTA	RCA, GE, PROSCAN, PIONEER	RCA, GE, PROSCAN
2	ZENITH	ZENITH, APEX	JERROLD	ZENITH, GEMINI	ZENITH
3	PHILIPS, MAGNAVOX	PHILIPS, MAGNAVOX, MARANTZ	GENERAL INSTRUMENT, TOCOM	PHILIPS, MAGNAVOX	PHILIPS, MAGNAVOX, MARANTZ
4	SONY, PANASONIC, SHARP, TOSHIBA, DAEWOO	SONY, PANASONIC, SHARP, TOSHIBA, DAEWOO, YAMAHA, DENON	RCA, GE, PROSCAN, PIONEER	SONY, PANASONIC, TOSHIBA, SHARP	SONY, PANASONIC, TECHNICS, SHARP, TOSHIBA
5	HITACHI, SANYO, JVC, LG-GOLDSTAR, SAMSUNG, MITSUBISHI	HITACHI, SANYO, JVC, LG-GOLDSTAR, SAMSUNG, MITSUBISHI	ZENITH, GEMINI	HITACHI, JVC, SAMSUNG	HITACHI, SANYO, JVC, LG-GOLDSTAR, SAMSUNG, MITSUBISHI
6	SYLVANIA, CURTIS-MATHES, FISHER, EMERSON	SYLVANIA, CURTIS-MATHES, FISHER, EMERSON	PHILIPS, MAGNAVOX	GENERAL INSTRUMENT, ECHOSTAR, DISH, HUGHES, PRIMESTAR	SYLVANIA, CURTIS-MATHES, FISHER, EMERSON, OPTIMUS
7	N/A	N/A		N/A	PIONEER, TEAC, NAD
8	N/A	N/A		N/A	KENWOOD, YAMAHA, DENON, ONKYO
9	N/A	N/A		N/A	N/A
0	ALL	ALL	ALL	ALL	ALL

Code Identification Feature

The Code Identification Feature allows you to identify the three digit library code stored under your device key. For example, if you want to find out what three digit code is stored under your TV device key, follow the six steps below:

1. Press and quickly release the desired mode button (**TV**, **VCR**, etc.).
2. Press and hold the **SETUP** button until the Mode buttons blink green, then the button you pressed in step 1 stays on, then release the **SETUP** button.
3. Press and release the **SETUP** button. The green indicator blinks off.
4. To find the first digit for the code stored under the mode key pressed in step 2, press each numeric key from **0-9** in turn. When the green indicator blinks off the number you pressed is the first digit for the code you are searching for.
5. To find the second digit, repeat step 4, this time when the green indicator blinks off this is the second digit.
6. Repeat step 4 again to find the third digit.

Initializing the remote into the Messenger Hub

A Quick Note Before You Set Up The MESSENGER HUB:

WARNING: For indoor use only.

Each receiver has a specific address made up of a HOUSE CODE (bottom dial) and a Unit Code (upper dial) which is used to communicate with the MESSENGER HUB.

The function of the HOUSE CODE is to prevent interference from another FREEWIRE system. If at any time, you experience interference with another system please choose another setting for your HOUSE CODE A - P. The letter selected must be the same on all RECEIVERS and the MESSENGER HUB.

Step 1:
Plug MESSENGER HUB into any operational AC outlet within your home. Rotate antenna to the upright position. Open the front door to expose control panel. **NOTE: Placing the MESSENGER HUB on the inside wall closest to driveway or entry way, will often maximize range of the TV REMOTE.**

Step 2:
Select a HOUSE CODE on the MESSENGER HUB, any **letter** A - P. (**Note:** The house code you select for the MESSENGER HUB will dictate what letter you will select for all of the RECEIVERS you plan to control with this MESSENGER HUB.)

Step 3:
Select a UNIT CODE on the MESSENGER HUB, any **number** 1 - 16. The number and corresponding color you pick will control the lamp outlet located on the underside of this MESSENGER HUB. (If you select the same number and same house code for any additional receivers on this system they will operate in conjunction with this hub.)
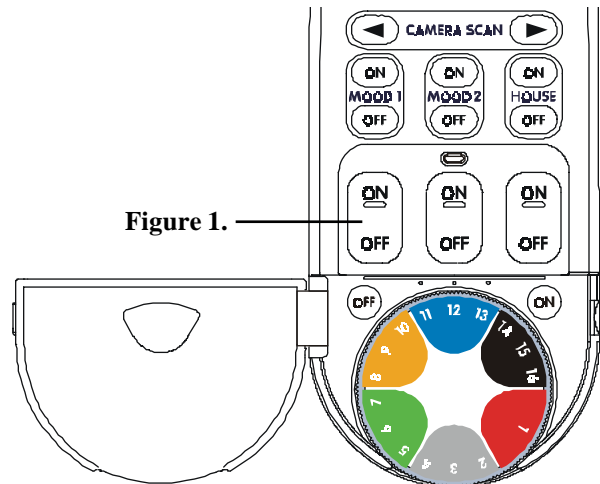
Step 4:
Synchronize your TV REMOTE with your MESSENGER HUB so they understand how to communicate with each other. (**Note:** Any additional remote that is introduced to the system must also be synchronized.)

To synchronize, move the MESSENGER HUB slide switch to LEARN.

While facing the MESSENGER HUB, press and hold **any of the three "ON"** buttons on the TV REMOTE for 5 seconds - **Figure 1.** Be sure to see the green light flash on the MESSENGER HUB. The flash will indicate that the TV REMOTE is now synchronized with the MESSENGER HUB.

Figure 1.

Now, move the slide switch on the MESSENGER HUB to RUN.
(**Note:** Door cannot be closed while MESSENGER HUB is in the LEARN mode.)

Step 5:
Turn lamp on first, then plug into the receptacle on the underside of the MESSENGER HUB. Use only incandescent bulbs up to 500W. Be sure the Lamp has been turned on prior to plugging into MESSENGER HUB.
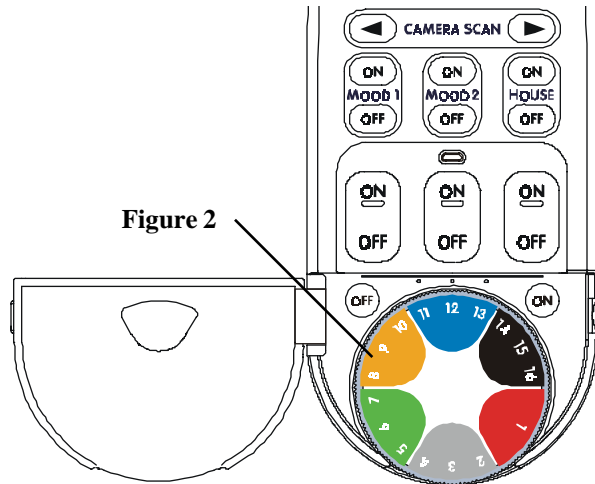Press the Local Lamp "ON/OFF" button on the MESSENGER HUB to check that the MESSENGER HUB is operating correctly. You will hear a "click" when the MESSENGER HUB turns this lamp on and off.

You are now ready to operate the lamp connected to this MESSENGER HUB with the TV REMOTE.

A Quick Note before You Set Up the TV REMOTE:
WARNING: For indoor use only.

Open door to the TV REMOTE to expose the colored
dial shown in **Figure 2 below.**

Figure 2

The numbers and colors on the TV REMOTE's dial
match the numbers and colors on the MESSENGER
HUB and LAMP RECEIVERS.

The colors on the dial for the Unit Code can be used to
divide your home into zones with up to 3 dedicated Unit
Codes per color (except red which only has one Unit
Code.) (e.g. Green = Living Room)

The numbers are used to differentiate one receiver from
another in each color/zone.

Reference Label Set Up

For your convenience, a blank reference label is located
on the back of your TV REMOTE. Write your own
customized applications on this label.
Example: **Red Unit Codes** have been selected for the
BULB RECEIVER in the **Entrance**
Gray Unit Codes have been selected for the
RECEIVERS in the **Dining Room**
Green Unit Codes have been selected for the RECEIVER
in the **Living Room** etc.

Step 1:
Set the dial on your TV REMOTE to the same Unit Code
(color) that you selected on the MESSENGER HUB.
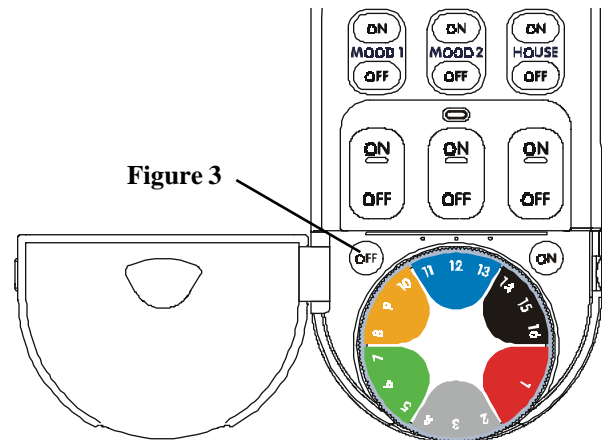
Step 2:
Each of the 3 individual codes on that color can be
turned on and off individually, using the 3 white ON/
OFF buttons located just above the dial as shown in
Figure 2 on the previous page.
Example: Blue 11 - Controlled by the top row, left switch
Blue 12 - Controlled by the top row, center switch
Blue 13 - Controlled by the top row, right switch.

The small round ON button and OFF buttons shown in
Figure 3 let you turn on or off ALL Receivers set to
that color.

Figure 3

You should now be able to turn the lamp on and off
with the corresponding button on the TV REMOTE.
Note: **You may have to press and momentarily hold the**
button before it activates.

Moods

A Quick Note before You Program the Mood Settings:
In the Lamp Receiver section you learned how to set up individual LAMP RECEIVERs. These LAMP RECEIVERs are turned on and off by pressing the appropriate rocker switch that corresponds to the receivers unique UNIT CODE. The purpose of the MOOD buttons are to link multiple receivers (up to 4) so that they can be turned on or off by the MOOD buttons.
Example: If you have a LAMP RECEIVER in one room and it is set to the number 7 on its UNIT CODE and you have another LAMP RECEIVER in another room and it is set up to the number 13 on its UNIT CODE, the two lamps can be turned on at the same time using a MOOD.

Step 1:
With the MESSENGER HUB still plugged into an AC outlet, set the slide switch to LEARN.
Step 2:
While facing the MESSENGER HUB, press MOOD 1 ON switch on the TV REMOTE. The MESSENGER HUB's green indicator light will flash.
Step 3:
Set the UNIT CODE dial on the TV REMOTE to match the UNIT CODE on the LAMP RECEIVER that you want to turn on and off. Press on the rocker switch corresponding to that LAMP RECEIVER. Wait for the MESSENGER HUB indicator to flash indicating the code has been stored in the MOOD function.
Step 4:
Repeat step 3 a maximum of 3 more times to link up to 4 LAMP RECEIVERs / BULB RECEIVERs with that MOOD key. The 4 LAMP RECEIVERs can be in any combination of UNIT CODES.
Step 5:
Return the slide switch on the MESSENGER HUB to **RUN.** The ON/OFF button of MOOD1 will now turn on and off all of the LAMP RECEIVERs / BULB RECEIVERs that were linked in Step 4. There may be up to a 3 second delay between the time that you press the button and the time that the lights respond.
Step 6:
To set up MOOD 2 key, repeat steps 1 thru 5 substituting MOOD 2 key for MOOD 1.
NOTE: Pressing either MOOD ON key while in LEARN mode clears all stored codes for that MOOD.

Camera operation

See the setup instructions that come with Freewire cameras and follow the instructions to install your first camera. As soon as you install your first camera and connect the receiver to your TV, you will see a picture on your TV (the camera powers up in the ON state when you first plug it in). You can then try it out with the FWMR remote, as described below, to see that you can turn it off and on by remote control, before continuing with the installation of additional cameras.

Freewire cameras work like regular Freewire Lamp Receivers and Appliance Receivers so you can turn them on and off by using the dial on the remote to select the color and number for the power supply that the camera is connected to, and then press the ON and OFF buttons above the colored wheel to turn the selected camera on and off.

However, you can have more than one camera installed, and since the cameras transmit the video and sound to the same receiver that's connected to your TV, you must ensure that you only ever have one camera turned on at the same time. To ensure this happens the camera power supplies are "smart." You set them in groups of three numbers corresponding to the colors on the remote's dial. Then when you turn on one of the cameras in the group of three, any camera in that group that was presently on automatically turns off - so you don't have to remember to turn off one camera before you turn on another camera, (as long as they are set to the same color).

You can have cameras set to different colors but in that case you must remember tun turn one camera off before you turn another camera on.

Also, setting cameras in groups of three on the same color lets you use the Camera Scan buttons. To use this feature you first turn on any camera in the selected color, using one of the three ON buttons above the color wheel, then press the Scan forward (or backward) button. Each time you press the Scan button the next (or previous) camera in the selected color turns on (and the previously on camera in that group automatically turns off).

Troubleshooting

Remote does not operate your A/V product.
- Press the mode button of the product you want to control.
- Program the remote with a new code.
- Install new batteries. (You might have to reprogram your remote after installing new batteries.)
- Remote may not be compatible with your product.

Remote does not operate some features of your product.
- Program remote with a new code.
- Remote may not be able to operate all features of your product or button names might be different than your product.

Red Indicator blinks after you program a product code.
- Remote did not accept the code.
- Try to program the code again or try a different code.

DIFFICULTY PROGRAMMING RECEIVERS

If you are experiencing problems when programming the BULB RECEIVER, it may be due to electrical interference on the power lines caused by large appliances such as refrigerators or TV's. To avoid the interference, move the Receiver while it is being programmed to a different wall outlet that is further away from large appliances.

SOME RECEIVERS DON'T RESPOND

Most houses are fed from a 240 volt service which is then split into two phases of 120 volts each in the circuit breaker panel. The most commonly encountered problem with systems which use the existing house wiring to transmit signals is that the signals are received by some Receivers, but not by others. For example, the MESSENGER HUB controls some lights but not others or controls some lights intermittently.

This can happen sometimes when the Receiver to be controlled is on the opposite phase of the house wiring to the phase which the MESSENGER HUB is connected to. If some of the Receivers are not working it may be necessary to:

• move the Receiver to a different wall outlet to test that it works. If it still doesn't work:

• move the Receiver to a different room. If it still doesn't work:

• move the Receiver to the closest outlet that the MESSENGER HUB is plugged into or move the MESSENGER HUB to the closest outlet to the Receiver that is not working.

Troubleshooting, cont.

RECEIVERS TURN ON BY THEMSELVES

If it is suspected that Receivers have turned on or off by themselves, it is possible that a neighbor has a FREEWIRE or compatible system, which could result in unexpected operation of both systems. Unplug all FREEWIRE devices immediately until (1) the interference is identified and eliminated through selection of a different HOUSE CODE to ensure that neither system causes unintended operation of the other system or (2) a blocking filter, Black and Decker Model number PZZ01, is installed. Call 1-888-678-7278 to order. Professional installation recommended. If you cannot identify the source of interference by talking with neighbors who are using a FREEWIRE or compatible system and you do not want to install a blocking filter, or if you have any questions about identifying or eliminating interference, please call 1-800544-6986 before plugging in or using any FREEWIRE device.

THREE WAY BULBS

Three way bulbs may be used, however, only one level of brightness can be activated using the Freewire system. To change brightness level you will need to turn the switch at the lamp to the desired level of brightness. NOTE: When using the BULB RECEIVER, you cannot control the lamp by the lamps switch. Turning the lamp switch off will cause the BULB RECEIVER to go into program mode and will need to be reprogrammed.

WIRELESS INTERCOMS AND BABY MONITORS

Intercom and monitoring systems, including baby monitors, that use the house wiring to transmit signals can "block out" FREEWIRE transmissions while the intercom or monitoring system is in "permanent transmit" or "talk" mode. It is NOT possible to have a wireless intercom or monitoring system and a MESSENGER HUB operating in the same house. It is possible that a neighbor's wireless intercom or monitoring system could cause unexpected operation, including failure to operate, of your FREEWIRE system, or that your FREEWIRE SYSTEM could cause unexpected operation, including failure to operate, of your neighbors intercom or monitoring system.

KEY CHAIN REMOTE RANGE OF USE

Placing the MESSENGER HUB on the inside wall closet to driveway or entry way, will often maximize range of KEY CHAIN REMOTE.

Back Cover