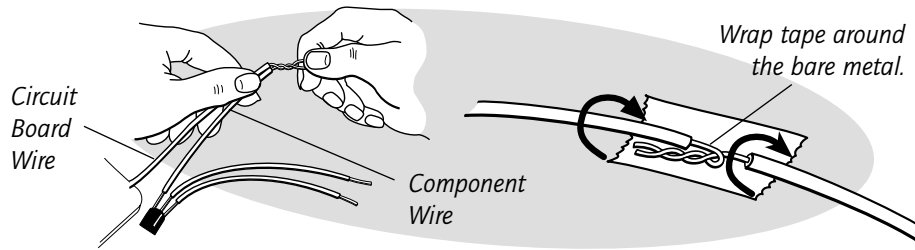


CONNECTING THE WIRES

Putting your own remote control together is simple—here is how to do it.

Note: Do not connect any wires yet. The instructions will tell you which wires to connect.



Twisting

1. Gently straighten and separate the wires on the circuit board. (Do not wiggle the wires too much or they will break.)
2. The instructions will tell you which wires to connect. To connect the wires, simply twist their metal ends together. Make sure you twist both wires around each other.
3. To test your connections, gently pull on the wires. They should not come apart.

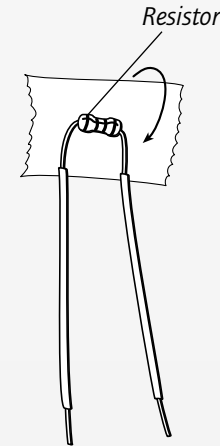
Taping

1. Gently bend the twisted wires, as shown. Take a piece of tape and wrap it around the bare metal. The tape is an "insulator." It will keep the bare metal from touching other bare metal. If the metal pieces touch, your remote control won't work.

RESISTOR

The resistor (re-ZIS-ter) is the tiny, striped cylinder with purple wires.

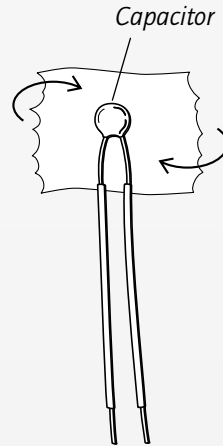
1. Wrap a piece of tape around the top of the resistor, as shown. (The tape should cover the tube and all the bare metal.)
2. Twist one of the resistor's purple wires to one of the circuit board's purple wires. (It doesn't matter which one.)
3. Twist together the other two purple wires.
4. Cover each of the connections (bare wires) with tape.



CAPACITOR

The capacitor (ca-PA-se-ter) has two brown wires attached to its legs.

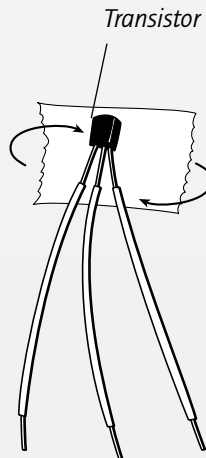
1. Spread the capacitor's two wires. The silver metal at the top of the wires should not touch. Wrap a piece of tape around the top (as shown).
2. Twist one of the capacitor's brown wires to one of the circuit board's brown wires. (It doesn't matter which one.)
3. Twist together the other two brown wires.
4. Cover each of the connections (bare wires) with tape.



TRANSISTOR

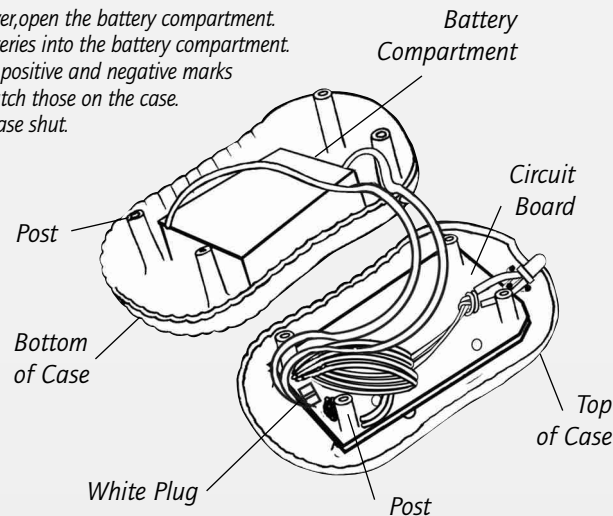
The transistor (tran-ZIS-ter) is the component with the blue, green, and orange wires.

1. Spread the transistor's three wires. The silver metal at the top of the wires should not touch. Wrap a piece of tape around the top (as shown). The tape should cover the top and all of the bare metal.
2. Connect the transistor's blue wire to the circuit board's blue wire.
3. Connect the orange wires.
4. Connect the green wires. (Be sure you've connected blue to blue, orange to orange, and green to green, or your remote control won't work.)
5. Cover each of the connections with tape.



PUTTING IT ALL TOGETHER!

1. Find the bottom (purple) half of the remote control. There are black and red wires hanging from the case back. At the end of the wires is a white clip.
2. Push the clip into the white socket on the back of the circuit board.
3. Carefully tuck the wires into the green half of the case. Be sure there are no wires covering the green posts. Snap the two halves of the case shut.
4. Using the screwdriver, open the battery compartment.
5. Put three AAA batteries into the battery compartment. Make sure that the positive and negative marks on the batteries match those on the case. Screw the battery case shut.

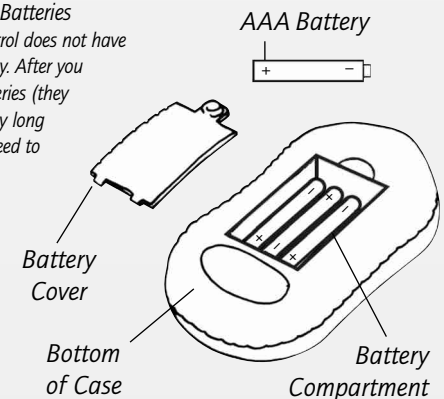


BATTERY CAUTIONS

- Use only fresh AAA batteries.
- Do not use rechargeable batteries.
- Battery replacement should always be done by an adult.
- Keep batteries away from small children.
- Do not mix old and new batteries, or different types of batteries.
- Do not press any of your remote control's keys while you install the batteries.
- Do not short-circuit supply terminals.
- Remove old or weak batteries.
- Dispose of batteries safely. Never burn or bury old batteries.

How to Install Fresh Batteries

- Your remote control does not have a built-in memory. After you change the batteries (they will last for a very long time), you will need to reprogram your remote control. (See the following section on how to do this.)



WHAT YOUR REMOTE CONTROL WILL DO

Before you can use your remote control, you will have to program it. But, here is a description of what each button will do.

TV/VCR Buttons

To select your TV, press the "TV" button. To select your VCR, press the "VCR" button.

Once you have selected the correct device, you can press the other buttons to make things work.

P Button

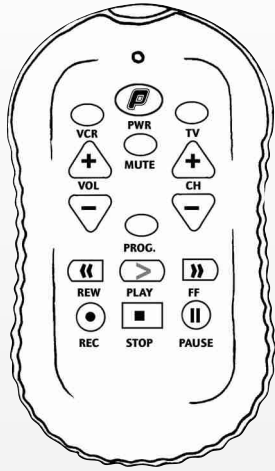
The P button turns on the power to either your TV or your VCR.

VOL Buttons

The buttons to adjust the volume on your TV are marked + and -.

MUTE

Press the "MUTE" button to silence your TV.



CH Buttons

The buttons to change the channel are marked + and -.

PROG

Use the PROG button to program your remote control (more on this later).

Other Buttons

The six buttons at the bottom of the remote control keypad are used to control your VCR. You must select "VCR" before pressing them.

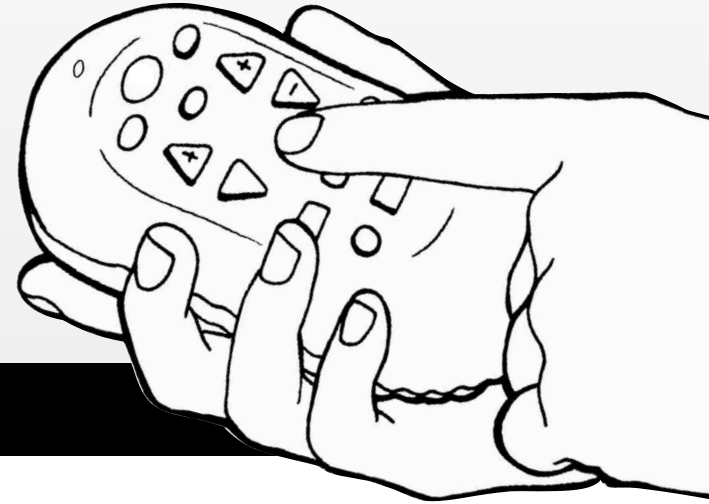
- The "REW" button rewinds the tape.
- The "PLAY" button plays the tape.
- The "FF" button fast forwards the tape.
- The "REC" button with the red dot is for recording. Push the "REC" button twice to record.
- The "STOP" button stops the tape.
- The "PAUSE" button pauses the tape.

HOW TO PROGRAM YOUR REMOTE CONTROL

Note: Start with your TV or VCR turned off.

1. See the Manufacturers' Codes below. Write down the codes for your brand of TV and VCR.
2. Press the TV OR VCR button.
3. Hold down the PROG button until the red LED blinks two times. Then enter the 4-digit code you wrote down (for your TV OR for your VCR) using the following buttons:
 - For 1, press VOL+
 - For 2, press VOL-
 - For 3, press CH+
 - For 4, press CH-

(Example: For a TV that has a Manufacturer's Code of 1234, Press TV. Hold PROG down until red light blinks two times. Press VOL+, VOL-, CH+, CH-)The red light will blink two times when the code is accepted by your remote control.
4. Point your remote control at your TV or VCR. Press P. Your TV or VCR should turn on.
5. Repeat these instructions to program another TV or VCR.



MANUFACTURERS' CODES FOR TVs & VCRs

Manufacturers' Codes

(Note: If there are several codes for your brand of TV or VCR, experiment and see which one works for your particular TV or VCR.)

TVs								
		1414, 1121, 2242, 1441,	KEC	3421	Philco	1423, 1122, 1243,	Shogun	1214
		1243, 3212, 1431, 1211,	KTV	3421, 1243, 1324, 1112		3212, 1214	Signature	1211
		1324,	Kenwood	1243, 1214	Philips	1423	Simpson	3434
A-Mark	1114	Curtis Mathes	Kloss	1343	Pilot	1243, 1214, 1324	Sony	1111
AOC	1243, 1214, 1114	Daewoo	LG	1431	Pioneer	3323	Soundesign	3421, 3413, 3414
Abex	1311		LXI	1344, 1423, 3233,	Portland	1214, 1324, 2241	Spectricon	1114
Admiral	2242	Daytron		3241, 3413	Prism	1414	Squareview	3334
Aiko	2241	Denon	Logik	1211	Proscan	1344	Starlite	3421
Akai	1243	Dumont	Luxman	1431	Proton	3413, 1114, 1123	Supre-Macy	1343
Alaron	3414	Dwin	MGA	3223, 1243, 3413, 1214	Pulsar	1212, 1214	Supreme	1111
Ambassador	3412	Electroband	MTC	1441, 1243, 1214, 1431	Quasar	1414, 4433, 3322, 1424	Sylvania	1423, 1243
Ampro	1134	Emerson	Magnavox	1423, 1243, 3414, 3434	RCA	1344, 1414, 2242, 1214,	Symphonic	3334
Anam	3421		Majestic	1211		1213, 2233, 3124,	TMK	3413, 1431, 3412
Anam National	1424		Marantz	1423, 1243	RadioShack	1344, 3233, 1214,	Tandy	2242
Archer	1114		Matsushita	4433		1324, 3322, 3421,	Tatung	1424, 1114
Audiovox	1121, 3421, 1114, 2241,	Envision	Megatron	3413, 3212, 1114		1243, 3413, 1431, 1311	Technics	1414, 4433
	1131	Fisher	Memorex	3233, 4433, 3223,	Realistic	3233, 3322, 3421,	Technol Ace	3414
Baysonic	3421	Fujitsu		1431, 1211		1243, 3413, 1214, 1324,	Techwood	1414, 1431, 1114
Belcor	1214	Funai	Midland	1344, 1212, 1414, 1324,		1311, 1431	Teknika	1423, 3421, 3223, 1441,
Bell & Howell	3233, 1211	Futuretech		1311, 3124	Runco	1212, 1243, 1124		1214, 3414, 1431, 1211,
Bradford	3421	GE	Minutz	1222	SSS	3421, 1214		1324, 2241
Brockwood	1214		Mitsubishi	2242, 3223, 3413, 1214	Sampo	1243, 1324, 1311	Telefunken	1431
Broksonic	4341, 1122, 1114		Motorola	2242, 1424	Samsung	1441, 1243, 3413, 1214,	Toshiba	3233, 3241, 1441
CXC	3421	Gibraltar	Multitech	3421		1431, 1311	Totevision	1324
Candle	1243, 1431, 1343	GoldStar	NAD	3241, 3413, 3323	Samsux	1324	Vector Research	1243
Carnivale	1243	Gradiente	NEC	1243, 1214, 1431	Sansei	1121	Victor	1422
Carver	1423	Grunpy	NTC	2241	Sansui	1122	Vidikron	1423
Celebrity	1111	Hallmark	Nikko	1243, 3413, 2241	Sanyo	3233, 3244	Vidtech	3413, 1214
Cineral	1121, 2241	Harley Davidson	Noshi	1213	Scimitsu	1214	Viking	1343
Citizen	1441, 1243, 1431, 1324,	Harman/Kardon	Onwa	3421	Scotch	3413	Wards	1423, 3322, 1243,
	1343, 2241, 1112	Harvard	Optimus	3233, 4433, 3323	Scott	4341, 3421, 3413, 1214,		3413, 1222, 1214, 3414,
Concerto	1431	Hitachi	Optonica	2242, 3322		3414		1431, 1211
Contec	3421	Infinity	Orion	4341, 1122, 3414	Sears	1344, 1423, 3233,	White	
Craig	3421	Inteq	Panasonic	1414, 4433, 1424		3241, 3413, 3414, 1431,	Westinghouse	1131, 1132
Crosley	1423	JBL	Penney	1344, 3241, 1414, 1441,		3244, 3334	Yamaha	1243, 1214
Crown	3421, 1324	JCB		1243, 3413, 1222, 1214,	Semivox	3421	Zenith	1212, 1211, 2241
Curtis Mathes	1344, 1423, 3233,	JVC		1213, 1431, 1324, 1114,	Semp	3241	Zonda	1114
		Janeil		1311, 3124	Sharp	2242, 3322, 1324		

VCRs									
		Dynatech	1111	MEI	1314	Pentax	2332	Shogun	4411
		Electrohome	1322	MGA	4411, 1334, 1442	Philco	1314, 4212, 1141	Singer	2131
		Electrohome	1322	MGN Technology	4411	Philips	1314, 2212	Sony	1314, 1311, 1111, 1312,
		Emerex	1311	MTC	4411, 1111	Pilot	1322		1313
Admiral	1411	Emerson	1322, 3431, 1111, 2432,	Magnasonic	1122	Pioneer	2114, 1433	Sylvania	1314, 2212, 1111, 1334
Adventura	1111		1334, 4212, 1113, 1122,	Magnavox	1314, 1324, 2212, 1111,	Portland	1221	Symphonic	1111
Aiko	1122		1442, 4211, 4221, 1141,		3222	Profitronic	4411	TMK	4411, 4211
Aiwa	1322, 1111, 1132,		1144	Magnin	4411	Proscan	1441, 4133	Tandy	1111, 2331
Akai	1332, 1442, 2333	Fisher	1344, 2331, 1423, 2113	Marantz	1314, 2212	Protec	2131	Tatung	1332
American High	1314	Fjui	1314, 1312	Marta	1322	Quasar	1314, 3313, 1134, 1112	Teac	1111, 1332
Asha	4411	Funai	1111	Matsushita	1314, 3313, 1134	RCA	4411, 3222, 2332,		
Audiovox	1322	GE	1441, 1314, 1411, 4411,	Memorex	1314, 1322, 1411, 1344,		2333, 4133, 1314, 1411	Technics	1314, 3313
Beaumarck	4411		4133		1111, 2331, 4411, 3313,	RadioShack	1111, 1132	Teknika	1314, 1322, 1111
Bell & Howell	2331	Garrard	1111		1114, 1124, 1132	Radix	1322	Thomas	1111
Broksonic	3431, 2432, 4212, 1113,	Go Video	1133, 1143	Minolta	2332	Randex	1322	Toshiba	1342, 1334, 2113, 4221
	1141	GoldStar	1322	Mitsubishi	1411, 2114, 1334, 1442	Realistic	1314, 1322, 1344, 1111,	Totevision	1322, 4411
CCE	2131, 1122	Gradiente	1111, 1131	Motorola	1314, 1411		2331, 2113, 4411, 1411	Unitech	4411
Calix	1322	HI-Q	1344	Multitech	1111, 2131	Ricoh	1313	Vector	1342
Canon	1314	Harley Davidson	1111	NAD	1433	Samsung	4411, 1342	Video Concepts	1342, 1442
Capehart	1221	Harman/Kardon	2212	NEC	2331, 2114, 1332	Sankey	1411	Videasonic	4411
Carver	2212	Harwood	2131	Nikko	1322	Sansui	1111, 2114, 1332,	Wards	1314, 1411, 1344, 2212,
Cineral	1122	Hitachi	1111, 1332, 2332	Nikon	1313		1121, 1141		4411, 1111, 2131, 3222,
Citizen	1322, 1122	JVC	2114, 1332, 1131	Noblex	4411	Sanyo	1344, 4411, 2331, 1114		1443, 4221
Colt	2131	Jensen	1332	Olympus	1314	Scott	3431, 1342, 2432,	White Westinghouse	1122
Craig	1322, 1344, 4411, 2131,	KEC	1322, 1122	Optimus	1322, 1411, 2331,		1334, 4221	XR-1000	1314, 1111, 2131
	1121	KLH	2131		3313, 1134, 1133,	Sears	1314, 1322, 1344, 1111,	Yamaha	1323
Curtis Mathes	1441, 1314, 1332,	Kenwood	2114, 1332		1112, 4411		1333, 2331, 1423, 2113,	Zenith	1324, 1111, 1312,
	3313	Kodak	1314, 1322	Orion	3431, 1113, 1141		2332		1313
Cybernex	4411	LXI	1322	Panasonic	1314, 3313, 4312,	Semp	1342		
Daewoo	1342, 1122, 1221,	Lloyd's	1111, 4211		1134, 1112	Sharp	1411		
	1144	Logik	2131	Penny	1314, 1322, 4411, 1423	Shintom	2131		

CAUTION

NEVER ATTEMPT TO OPEN OR TAKE APART A TV, VCR, DVD PLAYER, OR SIMILAR DEVICE. THEY CAN ALL GIVE YOU A NASTY ELECTRIC SHOCK!

Note: This remote control will not work with DVD players, combination TV/VCR units, or cable boxes.

This instruction sheet has to be kept since it contains important information.