

USER GUIDE

Hazard Hamlet®

(NEW GENERATION)

electrical hazard simulator

MODEL EP.11.P

including

MODULE EP.11.ha, MODULE EP.11.ho, MODULE 811/911

Prepared by



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for Presentation in school or community (Home Hazards)**

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1. SAFETY RULES



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your Hazard Hamlet. This label is located on your Hazard Hamlet.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your Hazard Hamlet.

- **The simulator is to be used only by the main operator and be sure you know all the safe procedures before using the simulator.**
- **Never allow anyone to use the remote control while you are setting up a scene on the board.**
- **When the simulator is not in use, store the remote and assure that the main switch is turned off and unplugged.**
- **Plug the display only when you are ready to show a scene.**
- **ATTENTION : After being plugged in, the entire display remains “OFF” until a control button is activated on the remote control.**
- **Electric shock hazard. To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. No user-serviceable parts are inside. Refer servicing to qualified service technicians.**
- **Use only tools and equipment with non-conducting handles when working on electrical devices.**
- **Never use metallic pencils or rulers when working with electrical equipment. This rule is very easy to forget, especially when you are showing some electrical part pointing with metallic pencil.**
- **The “Hazard Hamlet Simulator” can be use in a shelter but not in adverse weather conditions.**

-For added protection for your Hazard Hamlet during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect cable system. This helps prevent property damage and personal injury from lightning and power line surges.

-Disconnect the power source before servicing or repairing electrical equipment.

-Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

-Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

-Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

-Only use attachments/accessories specified by the manufacturer.

-Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.

-To avoid overloading a circuit, limit the number of appliances plugged into one outlet.

DURING PRESENTATION:

-Don't leave the remote control unattended.

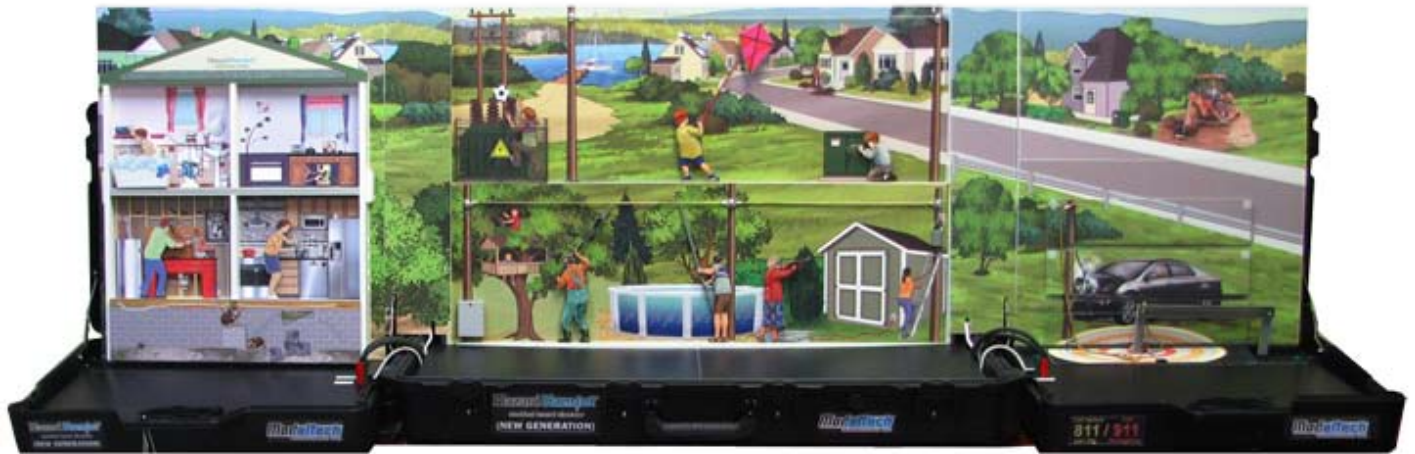
-Don't let anybody touching the simulator during a presentation.

-Don't let children climb on or play with the display.

-Remember that children can become excited while watching a presentation. Make sure that you place or install the simulator where it cannot be pushed, pulled over, or knocked down.

-Make sure that you route all cords and cables so that they cannot be pulled or grabbed by curious children.

2. HAZARD HAMLET (NEW GEN)
FOR PRESENTATION IN SCHOOL OR COMMUNITY
(NEIGHBORHOOD HAZARDS)



Module EP.11.ho

Module EP.11.ha

Module EP.11.811/911

3. HAZARD HAMLET (NEW GEN) Module EP.11.ha FOR PRESENTATION IN SCHOOL OR COMMUNITY (NEIGHBORHOOD HAZARDS)



3.1 GENERAL SET-UP

3.1.1 RAISE YOUR SIMULATOR



Wheel your Electrical Hazard Simulator EP.11.ha near the appropriate table. Carefully sit the case on the table. Unlatch the case (6 points). Open the case.



Grab the top of the panel and lift it up. See pictures showing the steps to raise your simulator.

Use both plastics connectors on both sides of the simulator to create a rigid panel.



Fasten your simulator with the black elastic located at the back of it.



3.1.2 INSIDE THE CASE

Inside view



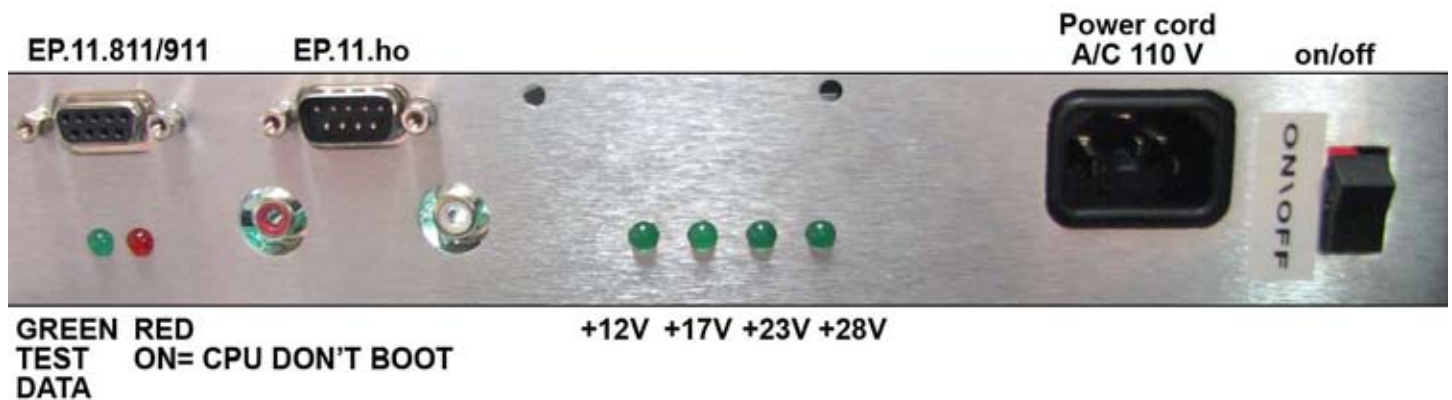
Serial number



Cables to connect the Module EP.11.ho
 -power cable (red)
 -ground cable (green)
 - link cable to EP-11.ho



Cables to connect the Module EP. 811/911
 -power cable (red)
 -ground cable (green)
 - link cable to EP. 811/911
 Infrared remote & 110 V power cable



GREEN RED
 TEST ON= CPU DON'T BOOT
 DATA

3.1.3 SET OF ELECTRICAL HAZARD ILLUSTRATIONS

1 Set of large illustrations showing other typical electrical hazard scenes and /or corrective safety measures. Removable metallic support holds, the unbreakable holder containing the illustrations.



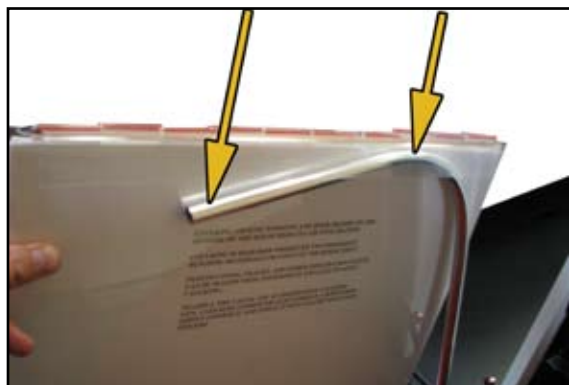
- INSTALLING THE ILLUSTRATION HOLDER



Insert the metallic support to hold the illustrations rack, in the hole located at the right of the case.

This support can not be used when you are using the three modules together.

See the EP.11.811/911 instructions for more information (Page 29 picture 8).



Hang the illustration holder on the metallic support as shown in the picture.

3.1.5- ELECTRICAL HAZARD ILLUSTRATIONS DESCRIPTIONS:



STORM



TRANSFORMER



POOL



TREE



911



OUTLET



GFCI



BOATING



ACCIDENT



DIGGING

3.1.6 WIRELESS REMOTE CONTROL AND INFRARED SENSOR

This remote control will add long range for full mobility & greater control over the choice of simulations.

When the set-up is completed, press any button on the *Wireless remote control* to generate the electrical spark and illuminate the figurine.

EP.11.ha SCENES (6)

EP.11.ho SCENES (4)

EP.11. 811/911 SCENES (3)



Wireless remote control



Infrared sensor for the remote.

Red led indicate the power is on.

When you activate your simulator using the switch On/Off you should see a red LED on the right corner of the EP.11.ha case. This is a reminder to tell you the simulator is energized.

3.2. SCENES DESCRIPTION

3.2.1 Scene 1: Substation / Transformer Station (TRANSFO)

Electric substations contain high voltages. Never try to retrieve lost items yourself.

Call <<your electric utility>> if you need help retrieving something from inside a substation. Do not enter substations or any area that has a sign reading “high voltage”.

DISCUSS:

- Distribution Stations and Transformer Stations.
- Safety training and safety equipment
- The control system: fences, signs, barbed wire.
- Phone the utility



- Hidden scene 1: SAIL BOAT

Note in the background the Sail Boat, talk about the risk with the power line.

3.2.2 Scene 2: Kite Flying (KITE)

Dirty or wet kite string can conduct electricity. Fly kites in open areas away from power lines. If your kite, model rocket, airplane or metallic balloon gets tangled in a power line, it could cause a power outage. Never try to retrieve any object from a power line. Call <<your electric utility>>.

DISCUSS:

- Damp and/or dirty string can be a conductor.
- Some strings have wires in them.
- Electricity flows down string, through person, to ground.
- No chance to let go.
- Same thing can happen with model planes, ropes.

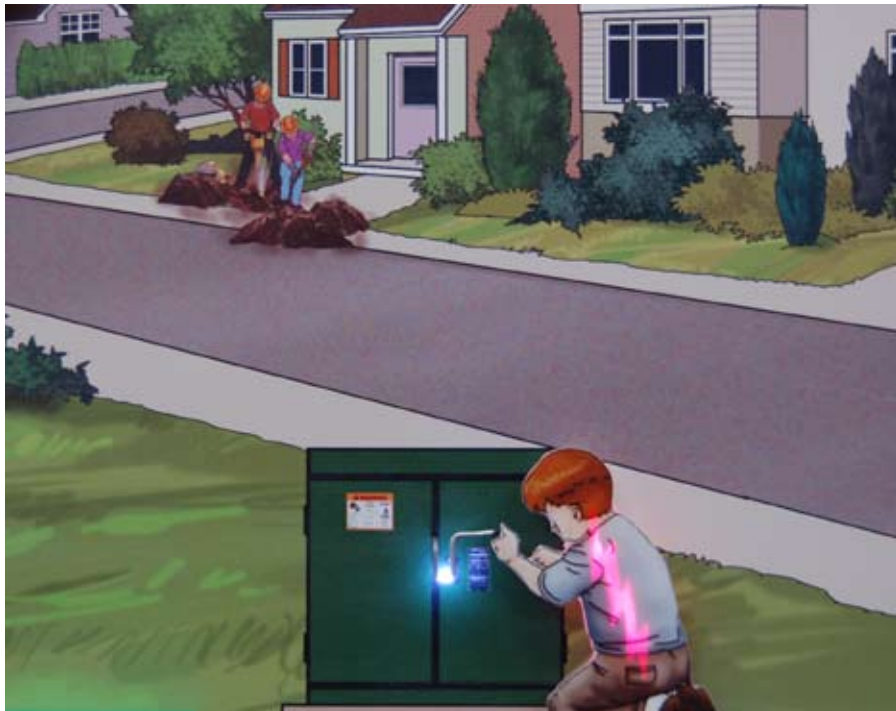


3.2.3 Scene 3: Padmount transformer (PADMOUNT)

In underground areas a pad mount transformer converts electrical current coming from the distribution system into a voltage that homes and businesses can use. The lock on the pad mount transformer is important to ensure safety. Stay away if the lock is broken or the transformer has been opened and report the damage to <<your electric utility>>.

DISCUSS:

- Found in newer areas.
- Does same job as pole-mounted transformer.
- Mounted on concrete base.
- People tamper with locks.
- Case: boy stuck branch in transformer: thrown 30 feet.
- Report broken locks to utility / teacher / adult.
- If vehicle strikes pad mount – stay back 30 feet.
- Tell people to stay in vehicle.
- Call police / fire department / utility.



- Hidden scene 2: Call Before You Dig.

Call before you dig! Call 1-800-XXX-XXXX to locate underground power lines. If the power lines are exposed, stay in your vehicle until help arrives. Keep others away from your vehicle to prevent electrocution. Stay clear until <<your electric utility>> tells you the power is shut off.

DISCUSS

- Back hoe digging a ditch.
- Characters have not called utility, gas, telephone, cable companies.
- Hoe touches underground cable.
- Driver is safe, Faraday principle – a bird on a wire.
- Alternative: if boon is working, lift bucket from hole.
- Character with pick axe gets shocked when touches the hoe
- Also potentially dangerous: well drilling, post hole augers.



3.2.4 Scene 4: Sawing a Branch From a Tree

Trees can conduct electricity. If you see tree limbs too close to high voltage power lines, call <<your electric utility>>. They will arrange to trim the trees FREE of charge. Never trim branches or remove trees near overhead power lines yourself. Use only a qualified, licensed tree trimmer.

DISCUSS:

- Don't ignore branches that grow around lines
- Should phone utility.
- Utility will solve or advise.
- Both aluminum and wooden ladders can be conductors.



-Hidden scene 3: (TREE)

Climbing trees or transmission towers is dangerous! People conduct electricity. Never touch a power line. Call <<your electric utility>> if you need help. You're asking for trouble if you climb a tree- so stay away!

DISCUSS:

- Installing playhouse in a tree is:
 - o Illegal
 - o Dangerous
- Distribution lines are above transformer
- Like string or ladder, pole can become conductor if damp.
- Call utility

3.2.5 Scene 5: Swimming Pool (POOL)

Power lines are not insulated. Keep all objects away from power lines. Be very careful when you're near overhead power lines. Never allow metal poles, metal ladders, or other objects that can conduct electricity near power lines. Never touch a power line.

DISCUSS:

- Vacuuming pool under overhead power line.
- Handle hits line. (Aluminum/Plastic)
- Lines have protective covers.
- Covers suffer from weather – like skin.
- Ground fault circuit interrupter would not help: power is from distribution side.
- Safety rule: move the pool or move the lines.



3.2.6 Scene 6 : Hedge Trimmer

Use three-wire extension cords when you mow, or use electric tools or appliances outside. Prevent electric shock by using ground fault circuit interrupters (GFCI) on all outside outlets. Never use any appliance that has a damaged cord, or only a two-wire, ungrounded plug.

DISCUSS:

- Using electrical tool while standing in puddle of water.
- Tool plugged into extension that sits in water.
- Ground Fault Circuit Interrupter would have helped.
- Potential for “ground gradient”.



- Hidden scene 4: Climbing Utility Poles

Climbing power poles or transmission towers is dangerous! People conduct electricity. Never touch a power line. Call <<your electric utility>> if you need help. You're asking for trouble if you climb a power pole or transmission tower- so stay away!

DISCUSS:

- Installing clothesline on utility pole is:
 - o Illegal
 - o Adds or changes stress on pole.
 - o Dangerous
- Distribution lines are above transformer
- Lines to house/industry/etc. lower but still dangerous.
- Like string or ladder, pole can become conductor if damp.
- Some cats love utility poles. Do not attempt rescue.
- Cat will come home when hungry, unless injured.
- Call utility



4. HAZARD HAMLET(NEW GEN) Model EP.11.ho FOR PRESENTATION IN SCHOOL OR COMMUNITY (HOME HAZARDS)

4.1 GENERAL SET-UP

4.1.1 RAISE YOUR SIMULATOR

Install your EP.11.ho at the left of your EP.11.ha.

Open the case, lift up the house as shown below (pict. 1 to pict.5) and use the clips to create a solid panel (pict.6 and pict.7). Locate and align the white marks on each cases (pict.8). Install the jonction panel with the velcro behind the upper panel of the EP.11.ho



PICT.1



PICT.2



PICT.3



PICT.4



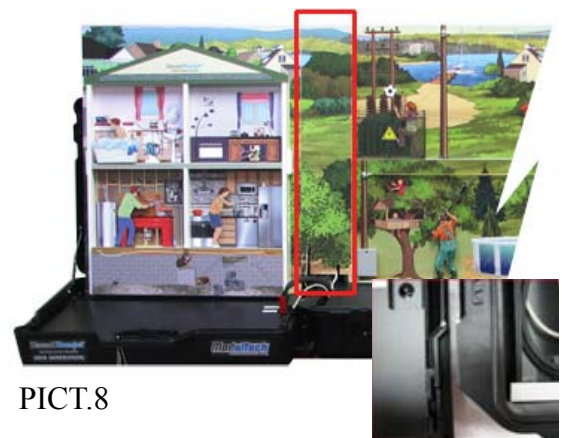
PICT.5



PICT.6



PICT.7



PICT.8

4.1.2 INSIDE OF THE CASE

Open the electronic compartment and locate the wires, the switch on/off and the fuse.



Connect from the left side your EP.11.ha the link cable (see picture A) and the cables with the green and red connectors (see picture B.)



Pict. A- Link cable from your EP.11.ha This cable allow you to control your EP.11.ho with the wireless remote provided.



Pict. B- Ground connector (green) and Power connector (red).



When you activate your simulator using the switch On/Off in your EP.11.ha you should see a red LED in the kitchen. This is a reminder to tell you the simulator is energized.

4.2 SCENES DESCRIPTION

4.2.1: Music in the Bathroom (RADIO)

Water and electricity don't mix! Keep radios and any electric appliances away from water. Prevent electric shock by using ground fault circuit interrupters in bathrooms (or damp basement areas). They can protect you from electrical shock.

DISCUSS:

- Character reaches to change the radio dial.
- The radio is faulty.
- Power flows from the radio, through the character, down the drain to the ground.
- Blow drying with a faulty dryer and touching the sink.
- The power flows from the faulty dryer, through the character to the sink, down the drain to the ground.
- Ground Fault Circuit Interrupters:
 - Required by code in bathrooms in new and remodeled homes.
 - "People Protectors"
 - Monitor current: check for imbalances 5 to 8 milliamps (enough to cause a tingle.)
 - Stops electrical flow in fractions of second.
 - Test monthly.



4.2.2: Octopus plug (OUTLET)

Electrical space heaters generate a great deal of heat so make sure that curtains and blinds do not touch them. Do not pile clothes or laundry near space heaters. Also keep the floor area near electrical space heaters clear of cardboard boxes and books.

DISCUSS:

- Space heater is too close to clothes.
- Heater must have at least 3 feet of clearance in every direction for safety use.
- Electrical space heaters require a great deal of energy, don't overload an outlet with such an appliance.
- Fire hazard.

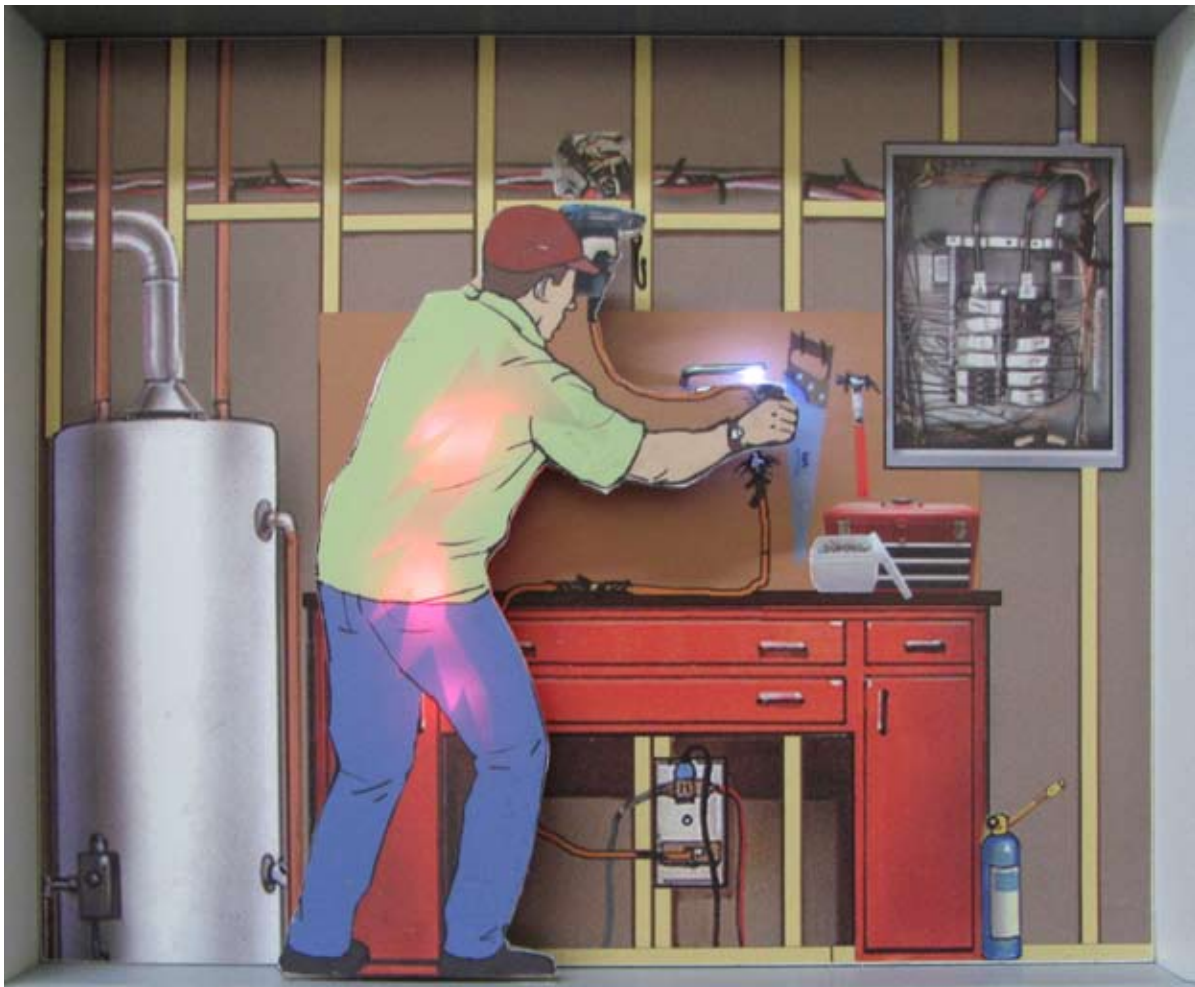


4.2.3: Frayed wire (WIRE)

Electrical shock or even death can result from frayed wires on appliances or workshop equipment. Have damaged wires replaced. Never pull a plug from the electrical outlet by its cord. Firmly grasp the plug head and pull it from the outlet. Make sure the appliance or equipment is switched off before plugging it in or unplugging it.

DISCUSS

- Use of appliances such as drills with damaged cords.
- Overloaded outlet, risk of fires.
- Unplug appliances by pulling on the plug, not the wire.
- Inspect any appliance and extension cord before using.



4.2.4: Toaster (TOASTER)

Unplug electric appliances before cleaning or repairing them. Never put metal objects into electric appliances or outlets. If an appliance overheats, unplug it and have it checked. Use only Underwriters Laboratory-approved electrical appliances.

DISCUSS:

- Character making toast.
- Toast sticks: so uses knife.
- Power flows through knife, through the character down to the ground.
- Right answer: pull plug.
- Other dangers:
 - Rinsing a plugged in mixer.
 - Cleaning blenders near sink.



4.2.5: Crawlspace



If a home is elevated, with a crawl space underneath, and there's an easy opening, it's an open invitation for raccoons, cats, opossums, and other animals to live under there, just like under a deck or shed. The key, as usual, is to find the opening(s) and seal them shut, either when the animal is out, or when it's been trapped or removed.

Getting raccoons out of the crawlspace is easier than the attic, usually because it's easier to access the openings, and because there are fewer nooks and crannies. However, there are a few exceptions. If much of the perimeter is open, and there's not much of a chance of sealing off the crawl space without a lot of effort - like latticework or steel mesh around the entire perimeter of the home - then you're probably always going to have problems with animals living under your house. Another problem is if you have openings under the home leading up to pipes or up into walls. In that case, you could get raccoons up in the walls, or under the floor.

Raccoons are not really wild animals. They are urban animals. Raccoons are FAR more common in cities and suburbs than they are in undeveloped natural areas. Just like rats. Thus, raccoon-human encounters are very common. Raccoons are smart, curious, and agile, and they need a place to live, so they very often break into a house.

It's also worth noting that it's very rare to find a raccoon nest of babies below a house in a crawl space. They always have the litter of young off the ground, up in the attic or walls, or up in a tree, but never below the house. So any raccoon living in the crawlspace below a house is most likely a male raccoon, or a female without any young, so that's one relief about crawl space animal problems.

From :www.raccoonatticguide.com

5. HAZARD HAMLET(NEW GEN) Module EP.11.811/911 FOR PRESENTATION IN SCHOOL OR COMMUNITY (HOME HAZARDS)

5.1 GENERAL SET-UP

5.1.1 RAISE YOUR SIMULATOR

Install your EP.11.811/911 at the right of your EP.11.ha.

Open the case, lift up the house as shown below (pict. 1 to pict.5) and use the connector part on hinge to create a solid panel (pict.6). Locate and align the white marks on each cases (pict.7). Install the jonction panel with the velcro behind the upper panel of the EP.11.811/911 (pict.7). Hang the illustrations rack on the upper edge of the module.



PICT.1



PICT.2



PICT.3



PICT.4



PICT.5



PICT.6



PICT.8

PICT.7



5.1.2 INSIDE OF THE CASE



optional :
figurines, fence
and wand.
see pict. C

Illustrations, junction panels and the hiding car panel are stored in the cover of the EP.11.811/911

Connect from the right side of your EP.11.ha the link cable (see picture A) and the cables with the green and red connectors (see picture B.)



Pict. A- Link cable from your EP.11.ha
This cable allow you to control your EP.11.811/911 with the wireless remote provided.



Pict. B- Ground connector (green)
and Power connector (red).

5.1.3 OPTIONS



Option included:

- figurine who jump out the car
- figurine who touch the cable,fence and car
- fence
- wand
- cable

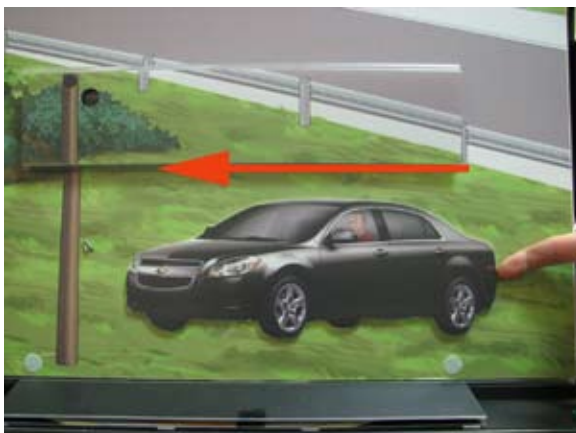
5.2 SCENES DESCRIPTION

5.2.1: Digging



Move to the left the backhoe to simulate the contact with an underground high voltage line during excavation.

5.2.2: Accident



Move to the left the car to simulate an accident .

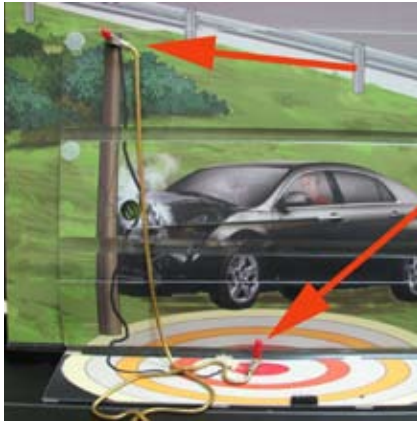


Unfold the flip to show the crashed car. when it's done give attention to the cable falled down on the car . Use the remote to create arcing and talk about the danger if someone touch the car. Use the illustration to explain how you should exit the car safely. (See page # 12 illust. Accident).



Unfold the flip to show the gradient circle. When it's done, talk about the risk to walk around the falled down cable. Use the illustration to explain what to do in this circumstances. (See page # 12 illust. 911).

5.2.3: Optional scenes with the car.



PICT. A



PICT. B



PICT. C

Install the cable in the connector located in the upper part of the post and the other extremity in the middle of the gradient circle. Be sure the cable is in contact with the metallic rod located on the car (see pict B). Plug the wand in the green connector located on the right side of the simulator (see pict C).



PICT. D



PICT. E



PICT. F

Connect the figurine (boy) on the wand and bring it near the car handle or near the cable then press the button (GRADIENT) on the remote to energize the scene. You have ten seconds to create a spark and light the figurine. If you need more time press again the same button.



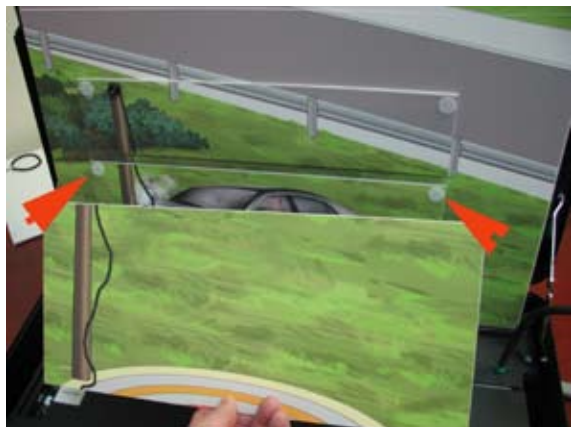
PICT. G



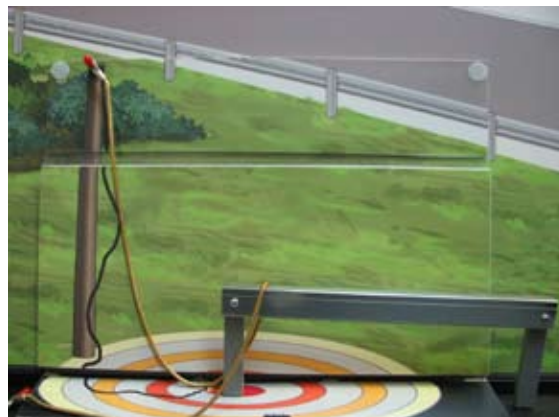
PICT. H

Repeat the same operation with the men who jumped out the car. Move the figurine so that the feet touch two colored circle. At the same time the metallic rod near the right foot is touching the cable connector or the cable itself to create a spark and light the figurine.

5.2.4: Optional scenes without the car (The cable has fallen down after a severe storm)

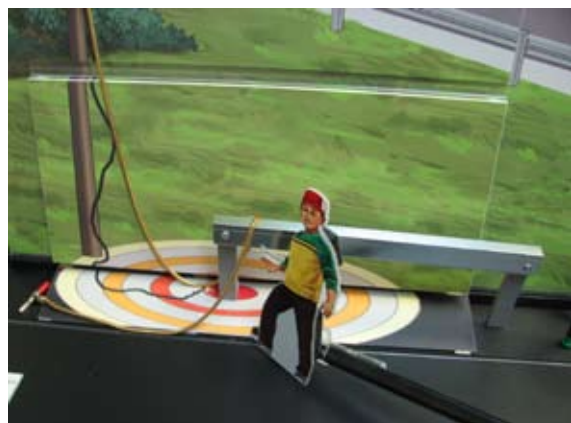


PICT. I



PICT. J

Install the panel to hide the car and fix it with the velcro tabs. Install the fence in the middle of the gradient and lets the cable hanging on the fence. Use the remote to energize the scene. Use the boy to show the danger in this situation.



PICT. K



PICT. L

Connect the figurine (boy) on the wand an bring it near cable (see picture K) or near the fence (see picture L) then press the button (GRADIENT) on the remote to energize the scene. You have ten secondes to create a spark if you need more time press again the same button.

6. PROPER MAINTENANCE

It is necessary to clean the backdrop and cut-outs when smoke has been used. Simply wipe it with a soft cloth to prevent the “smoke” residue from impregnating the graphic.

For service or replacement of pieces, please contact Modeltech International at (800) 689-8009. The serial number for your Hazard Hamlet (New Gen) can be found inside the unit. You will be required to supply the serial number when servicing your unit.

7. CONCLUSION

Education is the best defence against fire and electrocution. This presentation, using the Hazard Hamlet (New Gen) has hopefully brought to your attention many of those hazards, and the precautions, that can be taken to assure the safety of property and lives.

We are always interested in your feedback. If you wish to comment on this demo or if you want to help us continue to refine this product, please contact us at **1-800-686-8009**.

8. WARRANTY

WARRANTY POLICY

ALL SIMULATORS ARE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FOLLOWING THE DATE OF ORIGINAL PURCHASE OR SUBSEQUENT YEARS AS PER CONFIRMED “EXTENDED WARRANTIES”. THIS PERIOD OF GUARANTEE IS TO BEGIN SPECIFICALLY ON RECEIPT OF GOODS AT THE PURCHASER’S DOCK OR BY HAVING EXTENDED THE ORIGINAL WARRANTY YEAR AFTER YEAR. DURING THIS PERIOD, ANY DEFECTS IN THE OPERATION OF THE ABOVE SYSTEMS WILL BE CORRECTED FREE OF CHARGE, ASSUMING SAID DEFECTS RESULT FROM NORMAL OPERATING PRACTICES AND NOT FROM PHYSICAL DAMAGE. SHIPPING CHARGES TO OUR SERVICE CENTER, IF REQUIRED, ARE NOT INCLUDED.