

# Visual Property Inspection

1451 Queen St E Toronto, ON M4L 1E2

**Prepared for:** 

**The Weir Team** 

Phone No.: (416) 465-4545



# **Inspected by:**

Allen Ottaway 160 Goodman Dr. Oshawa, Ontario L1J 7V8

Phone: (289) 240-1189 Email: allen.ottaway@pillartopost.com

# **Report Commentary**



Date: 17-Jun-2016

1451 Queen St E, Toronto, ON M4L 1E2

This summary is not the entire report. The complete report may include additional information of concern to the client. It is recommended that the client read the entire report.

# 1.0 Exterior

### 1.1 Exterior Walls

Repair shingles being used as siding to prevent water entry and related damages.

# 2.0 Roof Structure

### 2.1 Covering

Torched down membrane is 10 years old and has reached its typical life expectancy. Check on an annual basis and replace as required to prevent water entry and related damages.

# 3.0 Electrical Service

### 3.1 Service Size

100 amp service, copper wire.

# 3.2 Circuit Wires/Receptacles

Install a GFCI receptacle on the rooftop patio to promote safety.

# **4.0** Heating

# 4.1 Heating Fuel Source

Boiler is in good condition.

# 4.2 AC

AC unit is 8 years old and functioning at time of inspection. Typical life expectancy is 15 years.

# **5.0** Plumbing Components

### 5.1 Hot Water Tank

8 year old rental water heater is functioning as intended at time of inspection.

# 6.0 Interior Living Spaces

### 6.1 Window

Windows are in good condition.



Date: 17-Jun-2016			1451 Queen St E, Toronto, ON M4L 1E2
			Property and Site
Limitations  Vegetation/Tree/Shrub Snow/Ice Cover AGE OF HOME 10 years	Vines	☐ Debris/Obs	truction
Conditions  ✓ Sunny/Mostly Sunny  ☐ Snow/Ice Conditions Approx. Temperature 31 celsi	□Cloudy/Mostly	y Cloudy	Rain/Wet Conditions
Building			
✓3 Story □Duple	x Condo	Townhome	
Recommend CO det	ector installation as require	ed by law within	15 feet of all bedrooms for occupant safety.
regularly over time, a	code inspection. Local co nd are not a part of this ho	ome inspection.	unty, can vary significantly and change
Bushes/Hedge/Flower Bed	□Vine	Slopes To I	House
Front Porch  ☐ Crack ☐ Wood ✓ Metal	/Composite	Concrete	Brick/Block/Paving Stone
Front Porch Rail			
☐ Wood ✓ Metal	Composite		
Front Porch Light			Operational
	rs to be sensor activated	Representa	tive # Inspected/Tested
Deck(s)/Patio(s)			
☐ Slopes to House ☐ Typical Cracking	✓ Wood/Compo  Concrete	site	Paving Stone/Block/Brick



**Exterior Lighting** 

Unsecured - repair

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		Exterior
Limitations		
☐ Insulation Conceals	Clearance	Debris/Obstruction
Obstructed/No or Partial	Access Bushes/Vines/	Tree Obstructions Snow/Ice Cover
Foundation Wall		
Stone/Flagstone	Brick	✓ Concrete Block
Preserved Wood	Partially Conc	ealed Hairline Cracking-typical
Completely Concealed		
Exterior Walls		
☐ Wood/Composite	Stucco	☐ Vinyl/Aluminum ✓ Brick/Stone
On Wood Framing		
Repair shingles be	ing used as siding to preven	t water entry and related damages.
Window Exterior		
☐ Wood ☐ Me	tal Uinyl	✓ Wood Int/Vinyl or Metal Cla
Garage Side or Back	Door	Operational
Dented/Minor Damage	☐Binds - Adjust	/repair

Representative # Inspected/Tested

Operational



	Date: 17-Jun-2016			1451 Queen St E, Toronto, ON M4L 1E2		
					Garage	
Type Detached 4 Car	Attached	<b>⊌</b> Built-In	✓ 1 Car	□2 Car	□3 Car	
<b>Door</b> ✓ Automatic	Manual	☐1 Automatic & 1	Manu	□Wood	Operational  ✓ Metal	
Floor  ✓ Cracking - Typic  ☐ Partially Concea		Movement/Heav	ring	Concrete	☐ Asphalt/Gravel	
<b>Wall</b> Drywall/Plaster	□Wood	Stone/Brick	Partially Con	ncealed	<b>✓</b> concrete	
Window  Binds	Damaged	Obstructed/ Not	Tested		Operational	
<b>Ceiling</b> ☐ Crack	✓ Drywall/Plaster	□Wood				
<b>Lighting</b> ☐ Unsecured	▼ Representative #	Inspected/Tested			Operational	
Access Door  Auto Door Close To Storage room	<b>,</b>	Wood	✓ Metal/Fiberg	glass	Operational	



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				Roof Structure
Inspected By:				
Binocular	Roof Edge	<b>✓</b> Walk On	☐ No Access	
Limitations				
<ul><li>✓ Deck/Patio</li><li>✓ Snow/Ice Cover</li></ul>	☐ Solar Panels ☐ Rain - Too Slip	Gravel Cover	☐ Steep Slope ☐ Material Too S	☐ Height lippery
Condition o	f torched down me	embrane under de	ecking is unknown.	
Main Roof  ✓ Flat Estimated Age 10 y	Gable vears	☐Hip/Valley	Shed	
Gutter/Downsp  ☐ Galvanized  ✓ Above Ground I	Plastic	Aluminum	Copper	Below Ground Discharge
	lownspouts away	from foundation to	reduce wall deteri	oration, potential water entry and
Fascia/Soffit  ☐ Moisture Stainin	g evident - Monitor	✓ Aluminum/Vir	nyl 🗌 Wood	
Covering  Concrete/Clay T  Metal	ile			☐ Asphalt/Composite Shingle ☐ Tar & Grav
			nas reached its typio entry and related d	cal life expectancy. Check on an annual lamages.
Life Expectanc	У			
Typical	Middle	<b>✓</b> End	Exceeded	
Accessory				
✓ Vent Stack	Solar Panels	✓ Skylight(s)	☐ Vent Caps	
Flashing				
Not Checked/Co ✓ Roof to Wall ✓ Aluminum/Galva	Stack	☐ Chimney ☐ Valley ☐ Tarring/Conce	☐ Drip Edge ☐ Roll Roofing aled	✓ Flat Roof Skylight  Replace When Re-roofing



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					Electrical Service
Service Entra	nce				
☐ No Conduit	Overhead	✓Underground	<b>✓</b> 120/240V		
Entrance Cab	le				
Concealed	Aluminum	<b>✓</b> Copper			
Main Disconn	ect				•
Switch/Cartridge	ge Fuse	<b>✓</b> Breaker			
Service Size					
Have Electricia Amps 100	nn Evaluate				
100 amp s	service, copper wire	<del>)</del> .			
Distribution P	anel				
Not Opened Location Garage	Non Standard Installation		Obstructed		
Panel Rating  ✓ Room For Exp. Amps 125	ansion				
Fuse					
<b>✓</b> Breaker	GFCI Breaker	✓ AFCI Breaker	Over-Fused	Cartridge	Glass
Circuit Wires/	Receptacles				
Aluminum	<b>✓</b> Copper	Representative	# of Outlets Inspect	ed/TestSt/itched Ou	tlets
Install a G	FCI receptacle on t	the rooftop patio to	promote safety.		
Grounding					
Concealed	Ground Rod	Water Main			
Bonding					
<b>✓</b> Concealed	Water Pipe	Gas Pipe	Meter By-Pass	S	



Date: 17-Jun-2016				1451 Queen St E, Toronto, ON M4	L 1E2
				Неа	ating
Limitations					
System Operat	ing In AC Mode	System Shut Do	wn/Not Tested		
Smoke Detect	tors				
Basement	✓ 1st Floor	✓2nd Floor	✓ 3rd Floor		
Thermostat/H	umidistat			Operational	—
Unsecured	Programmable	Standard		·	
Heat Type					—
Convector - W Radiant - In-Fl		▼ Forced Air	Radiator/Baseb	poard	
Heating Fuel S	Source				
Gas	Electric	Propane	Boiler		
tape.	Shut Off Location		nei investigate cii	rculating pump being held together w	—
Heating Syste	em			Operational	
Advise Service/Repair Contract		☐ Verify Service Hist w/Selle			
Fresh Air Sup	<b>Poly</b> External				
Venting					
Metal	Corrosion	Sidewall/Plastic	Flue		
Life Expectan	су				—
<b>✓</b> Typical	Middle	Exceeded	Middle/End		
Motor/Blower				Operational	—
<b>✓</b> Direct Drive	□Noisy	Other			
Filter					
Disposable	Missing	Inoperable	Undersized	Damaged	
Duct/Joint/Ho	using				
Unsecured	Corrosion				



Date:	17-Jun-2016	1451 Queen St E, Toronto, ON M4L 1E2
		Heating
AC		Operational
☐ Not Checked ☐ Dirty	<b>✓</b> Central	Room Unit
Approx. Age 8 years	Approx Size - Tons 1.5	
AC unit is 8 years old an	d functioning at time of inspe	ection. Typical life expectancy is 15 years.
Cooling Fuel Source		
Electric		
Condensation Line		
☐ Improper Drain ☐ Corrosion		
Refrigerant Line		
☐ Unsecured ☐ Not Insula	ted	



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				P	lumbing Compon
Limitation					
Finished Basen	nent	Private System			
Public Supply	,				
Concealed Not Metered	Lead	Galvanized	<b>✓</b> Plastic	Copper	<b>✓</b> Metered
Shut Off Location	: Furnace room				
Public Shut-O	ff Valve				
✓ Not Tested	Corrosion	Tagged/Labeled	l for Convenience		
Water Pressu	re				
Low	<b>✓</b> Typical	High			
Water Quality			_		
Discoloration	Debris	Odor	Advise Well W	Vater Quality Tes	<b>✓</b> Typical
Distribution P	. •				
Concealed	<b>✓</b> Plastic	Galvanized	Copper		
Cross Connec					
Kitchen	Laundry	☐ Hose Bibb	✓ None Visible		
Waste Draina	-				
Concealed	Cast Iron	Plastic	Copper	Pump/Inspec	et Septic System
Floor Drain					
None - a potent	tial concern	✓ Drain Appeared	Functional During	Test	
Main Cleanou  ✓ Concealed	t				
Hot Water Tar	nk				Operational
✓ With Heating S Age 8 years	System	☐Gas Estimated Capacity	✓ Electric v -Litres 108	Some Corros	sion Noted - Typical
	ld rental water he	ater is functioning as		of inspection.	
Consult wi premature		nnician to further inve	estigate rusting an	d staining on the	tank to prevent
Life Expectan	~	_	_		
Typical	Exceeded	<b>✓</b> Middle	Middle/End		



	Date: 17-	Jun-2016	1451 Queen St E, Toronto, ON M4L 1E2
			Plumbing Components
Fuel Shut-Off			
Concealed			
Location beside			
Relief Valve			
☐ No Test Lever	Corrosion	Other	
Discharge Tub	oe .		
Undersized	Discharge		



	Date: 17-J	un-2016	1451 Queen St E, Toronto, ON M4L 11	
				Laundry
<b>Wall</b> ☐ Patched	Unfinished	Crack - Typical Uneven		
Ceiling  Patched	Unfinished	☐ Crack - Typical ☐ Uneven		
Door  Binds	Damaged/Hole	e in Door	Opera	tional
Lighting  None  Determininvestiga	-	ble light fixture and repair as red	Operational: quired. Replace bulb prior to furth	<b>No</b>
Trap/Drain  ☐ Drain stop dis	sconnected/inoperable	-repair I frap compere Transce Slow D	rain Corrosion	
Washer  ✓ Tested On/Of Make SN# SR60	•		Operational:	Yes
functions			ols if they are connected or not sl ply comprises turning the applian	
Dryer  ✓ Tested On/Of	f Function Only		Operational:	Yes
basis.	-	_ •	Plastic Duct and for fire safety. Inspect/clean	on a regular



	Date: 17-Jui	n-2016	1451 Queen St E, Toronto, ON M4L		
3rd floor				All Baths	
Location  Basement	1st Floor	2nd Floor	✓ 3rd Floor		
Water Flow ✓ Normal	Suspect	Low			
Floor Worn	Minor Cracking	- Typica	Stains/Minor Damage		
<b>Wall</b> ☐ Uneven	Patched - Typica	ıl	Ceramic		
Ceiling Uneven	Minor Patching	- Typical	☐ Minor Cracking - Typica		
<b>Door</b> ☐ Binds - Adjust/R	Repair	Damaged	✓ Representative # Inspected/Tested	Operational	
Lighting  None	Unsecured			Operational	
Exhaust Fan  Advise Installation		Dirty - Clean fo	r best function Noisy - Service	Operational re/Repair/Replace	
Sink  Worn	Chip/Scratch	✓ Steel/Ceramic	Solid/Granite		
Faucet  ☐ No Shut-off	Unsecured	Corrosion	Minor Leakage at Handle - Repair	Operational	
Trap/Drain  ☐ Drain stop disco	nnected/inoperable-R	epaisfowcDnwieniefil	æan/Repair Corrosion - M	onitor for leaks	
Vanity  Worn/Scratches	Missing/Loose F	Iardware	Prior Stains-No Leakage Now		
Counter  Unsecured	☐ Minor Damage -	Scratches/Stains	Caulk at Backsplash		
Toilet  No Shut-Off  Secure toile	✓ Unsecured et to reduce second	Crooked - Moni		Operational	



	Date: 17-J		1451 Queen St	E, Toronto, ON M4L 1E2	
3rd floor					All Baths
Tub/Enclosure	<b>e</b>				
<b>✓</b> Ceramic/Tile	Solid Surface	Marble	Fiberglass	Plastic Panels	
Minor Mildew	Stains-Treat/Clean	Worn - Scrat	tches/Chips		
Caulk tub	surround to reduc	e water penetration	on and subsequent o	leterioration.	
Tub Faucet/M	ixer				Operational
Not Tested	Unsecured	Leaky-Secur	re/Repair/Replace		
Shower Head					Operational
☐ Not Tested	Unsecured	Leaky-Secur	re/Repair/Replace		
Heat Source					
None	Thermostat	Electric	✓ Air Register	Radiant	
Radiator/Conve	ector				



	Date: 17-Ju	n-2016	1451 Queen St E, Toronto, ON Ma		
					2nd floor
Location  Basement	1st Floor	✓2nd Floor	3rd Floor		
Water Flow  ☐ Normal	Suspect	Low			
Floor  Worn	☐ Minor Cracking	- Typica	Stains/Minor Da	amage	
<b>Wall</b> ☐ Uneven	Patched - Typic	al	☐ Minor Cracking	g - Typica	
Ceiling  Uneven	☐ Minor Patching	- Typical	✓ Minor Cracking	g - Typica	
<b>Door</b> ☐ Binds - Adjust/F	Repair	☐Minor Damage/	Hole In Door	Operational:  Representative # Inspec	Yes ted/Tested
Lighting  None	Unsecured			Operational:	Yes
Exhaust Fan  Advise Installat	ion	☐Dirty - Clean fo	r best function	Operational:  Noisy - Service/Repair/l	<b>Yes</b> Replace
Sink  Worn	Chip/Scratch	✓ Steel/Ceramic	Solid/Granite		
Faucet  ☐ No Shut-off	Unsecured	☐ Corrosion	☐ Minor Leakage	Operational: at Handle - Repair	Yes
Trap/Drain  Drain stop disco	onnected/inoperable	Slow Drain - Cl	ean/Repair	Corrosion - Monitor for	leaks
Vanity  ☐ Worn/Scratches	Missing/Loose l	Hardware	Prior Stains-No	Leakage Now	
Counter  Unsecured	☐ Minor Damage	- Scratches/Stains	✓ Caulk at Backsp	olash	
Toilet  No Shut-Off	✓ Unsecured et to reduce secon	Crooked - Moni		Operational:	Yes



	Date: 17-J	un-2016		1451 Queen St E, Toron	nto, ON M4L 1E2
					2nd floor
Tub/Enclosure	e				
✓ Ceramic/Tile	Solid Surface/	Marble	Fiberglass	Plastic Panels	
Minor Mildew	Stains-Treat/Clean	Worn - Scrat	ches/Chips		
Caulk tub	surround to reduc	e water penetration	on and subsequent d	leterioration.	
Tub Faucet/Mi	ixer			Operational:	Yes
☐ Not Tested	Unsecured	Leaky-Secur	e/Repair/Replace	operational.	
Shower Head				Operational:	Yes
☐ Not Tested	Unsecured	Leaky-Secur	e/Repair/Replace		
Heat Source					
None	Thermostat	Electric	✓ Air Register	Radiant	
Radiator/Conve	ector		-		



	Date: 17-Jur	1-2016	1451 Queen St E, Toron		nto, ON M4L 1E2	
					Powder room	
Location  Basement	✓ 1st Floor	2nd Floor	3rd Floor			
Water Flow  ✓ Normal	Suspect	Low				
Floor  Worn	Minor Cracking	- Typica	Stains/Minor Da	mage		
<b>Wall</b> □Uneven	Patched - Typica	1	☐ Minor Cracking	- Typica		
Ceiling Uneven	Minor Patching -	Typical	Minor Cracking	- Typica		
Door  ☐ Binds - Adjust/Repair		Minor Damage	Hole In Door	Operational:  Representative # Inspe	Yes cted/Tested	
<b>Lighting</b> ☐ None	Unsecured			Operational:	Yes	
Exhaust Fan  Advise Installation		Dirty - Clean fo	or best function	Operational:  Noisy - Service/Repair	<b>Yes</b> /Replace	
Sink  Worn	Chip/Scratch	✓ Steel/Ceramic	Solid/Granite			
Faucet  ☐ No Shut-off	Unsecured	Corrosion	☐ Minor Leakage a	Operational: at Handle - Repair	Yes	
Trap/Drain  Drain stop disc	onnected/inoperable	Slow Drain - Cl	lean/Repair	Corrosion - Monitor fo	or leaks	
Vanity  Worn/Scratches	s Missing/Loose H	Iardware	Prior Stains-No	Leakage Now		
Counter  Unsecured	☐Minor Damage -	Scratches/Stains	Caulk at Backsp	lash		
Toilet  ☐ No Shut-Off	Unsecured	Crooked - Mon	itor for leakage	Operational:	Yes	



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					Kitchen
Floor  Worn	Minor Cracking	- Typica	Stains/Minor Da	ımage	
<b>Wall</b> ☐ Uneven	Patched	Minor Cracking	- Typica		
Ceiling Uneven	Patched- Typical	l	Minor Cracking	- Typica	
Window  ✓ Binds - Adjust/Ro  ☐ Treat Wood To P		Not Tested ✓ Representative #	Thermal Pane Inspected/Tested	Single Pane Storm Window	Operational
Lighting  None	Unsecured	▼ Representative #	Inspected/Tested		Operational
Sink  Worn	Chip/Scratch				
Faucet  ☐ No Shut-Off Val	ve	Unsecured	☐ Corrosion	☐ Minor Leakage	Operational at Handle - Repair
Trap/Drain  Slow Drain - Cle	an/Repair	Corrosion - Mon	itor for Leakage		
Counter  Unsecured	✓ Caulk at Backspl	lash	☐ Minor Damage/S	Scratches/Worn	
Cabinet  Worn/Scratches		Missing/Loose F	Hardware	<b>✓</b> Representative	# Inspected/Tested
Range Hood Cooktop Exhaust	:	□No Exhaust	☐ No Light	Noisy	Operational
Exhaust vent Unsecured	Ductless	Concealed	▼ To Exterior		
Filter  Missing - Install	for safety	Unsecured	Damaged	Greasy	
Major Applianc  ✓ Tested ON/OFF	•	✓ Did not Test All	Functions/Cycles		

All appliances were turned on using regular operating controls if they are connected or not shut down. All



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Kitchen

functions and different systems are not tested. The test simply comprises turning the appliances on to verify some basic functionality.

some basic functionality.				
Dishwasher	Operational			
Brand GE				
Stove/Cooktop				Operational
Brand GE # SR232587Q				
Refrigerator				Operational
Brand GE# MR406846				
Heat Source				
□ None □ Thermostat	Electric	✓ Air Register	Radiant	
Radiator/Convector				



Radiant-Concealed

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				li	nterior Living Spaces
Floor  Worn	☐ Minor Cracking	- Typica	Staining/Minor	Damage	
Wall  ☐ Uneven  ✓ Wood Frame w/				- Typica	
Repair dry	wall behind front d	oor. Considered	a cosmetic conditio	n.	
Ceiling  ☐ Uneven ✓ Wood Frame w/	Patched - Typic /drywall/plaster	al	☐ Minor Cracking	- Typica	
	Repair Preserve/Protect re in good condition	_ •	Fixed Pane # Inspected/Tested	Single Pane	Operational  ✓ Thermal Pane
Lighting	_	_			Operational
None	Unsecured	Representative	# Inspected/Tested		
Ceiling Fan  None	Unsecured				Operational
Interior Doors  Binds - Adjust/I  Floor guides mi	=	☐ Hinged ✓ Representative	Closet door off	track	Operational
Stairway  Carpet	□Wood	₩orn	Squeaks - Typic	al	
Railing  ✓ Wood/Metal	☐Incomplete	None			
Exterior Doors  Binds - Adjust/I  Minor Damage	Repair	☐ Weather Stripp ☐ Sliding	ing Missing/Improper  ✓ Hinged	Dead Bolt	Operational
Heat Source  ✓ Air Register	Electric	Radiator/Conve	ector	None	



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**Additional Comments** 

# **General Comments**

This is a Prelisting Inspection performed for the seller of the home in preparation for putting the home on the market for sale. This inspection is completed to ASHI and OAHI standards, is visual in nature, and does not address building code compliance issues which are the purview of municipal building inspectors.



1451 Queen St E, Toronto, ON M4L 1E2

# Exterior Walls



Unsecured shingles

# **Roof Structure**

# **Main Roof**



Roof covering



# Roof Structure

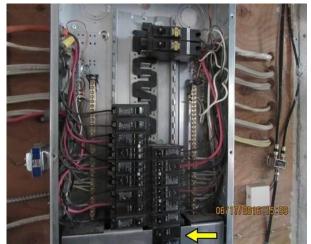
# Gutter/Downspout



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Downspout discharging against foundation

# Electrical Service Distribution Panel



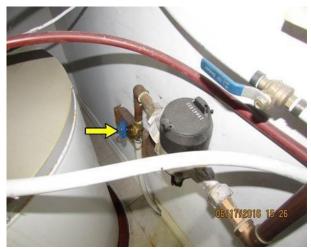
Electrical panel and main shut off



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# **Plumbing Components**

# **Public Supply**



Water meter and main shutoff

# **Hot Water Tank**



Staining and rusting



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# All Baths Tub/Enclosure

# 3rd floor

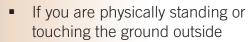


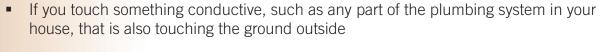
Deteriorating caulking at tub surround

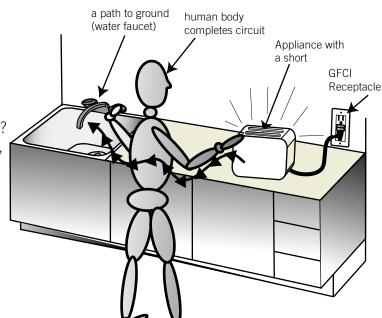
# **Ground Fault Circuit Interrupter**

A ground fault circuit interrupter, or GFCI, is an inexpensive electrical safety device that can protect you and your family members from a serious electric shock.

Have you ever had an electric shock? While it is an unpleasant experience, it is not usually fatal. However, given the right conditions, the same shock could be fatal! If your body makes a solid connection to the ground, the shock could easily kill you. Here are two examples of a solid ground connection:







In other words, if you decide to operate your hedge trimmer in your bare feet and you get a shock, you may not survive it.

# **How Can a GFCI Help?**

A GFCI is a special electrical outlet that prevents electric shocks in situations such as the ones described above. The GFCI monitors the electrical current leaving from and returning to the outlet. The current leaving the outlet should be the same amount as the returning current. If the current returning is less than that which leaves, the missing current could be passing through somebody's body to the ground. The GFCI detects the mismatch and shuts off the electrical outlet in a split second.

# Where Should GFCI Outlets Be Located?

GFCI outlets should be installed in any area that presents a risk of an electric shock withg a direct path to the ground. In other words, anywhere you might directly touch the ground outside or anywhere where you might touch a part of the plumbing system. Some smart GFCIs locations are:

- Exterior outlets
- Kitchen counter outlets (not common in Canada)
- Bathroom outlets
- Garage outlets
- Outlets in unfinished basements





This is not a complete list. Areas near swimming pools, hot tubs, and so on should also include this type of outlet.

GFCIs are not perfect, however, and have been known to "nuisance trip" when connected to certain types of electrical equipment. For this reason, exceptions to the suggested (or required) locations for GFCIs exist. For example, a regular outlet would be a better choice for a freezer in your garage since the potential for nuisance tripping of the GCFI is high and might go undetected for days, leading to spoiled food in the shut-off freezer.

# Remote GFC

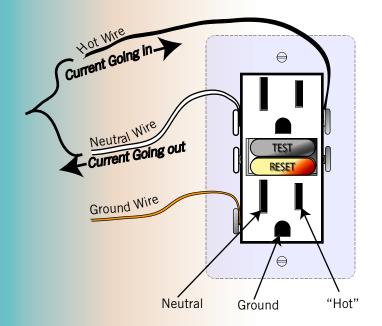
Several electrical outlets usually connect to a single circuit in an average home. A single GFCI outlet will protect all of the outlets in the circuit, even if the other outlets are not GFCIs. But the GFCI outlet must be the first outlet in the string in order for it to properly protect the other outlets, and, of course the connections have to be properly made.

Remote GFCIs sometimes cause confusion for home owners in the following ways:

- A home owner thinks the bathroom does not have a GFCI because the outlet looks like a standard one. The standard outlet under the protection of a remote GFCI should have a sticker indicating its GFCI protection. The problem is, the sticker does not stick forever. A Pillar To Post® inspector can test this for you.
- A standard outlet that does not appear to work in a bathroom or kitchen may actually be attached to a remote GFCI outlet that has nuisance tripped. Before calling an electrician, check the GFCI outlets in other bathrooms and in other locations around the house.

# **Testing**

GFCIs are easy to test and should be tested every month. Simply press the test button on the outlet. You should hear a pop as the reset button pops out a little. To reset, just press the reset button. If the GFCI fails to trip, or if you are unable to reset it, it is time for an electrician to replace it.



Special breakers also provide GFCI protection to the entire circuit. These breakers can be installed instead of GFCI outlets. The GFCI breaker should also be tested monthly. You will recognize this breaker from the test and reset button.

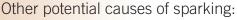
GFCIs can help prevent injury and death from electric shock. It is a small device worth having to ensure the safety of your family members.

# **Arc Fault Circuit Interrupter**

# **Increasing Electrical Fire Safety**

An "arc fault circuit interrupter," or AFCI, is a new type of circuit breaker designed to detect sparking in an electrical system, and to shut down the affected circuit before it causes a fire. The jury is still out on whether AFCIs actually save lives and property.

A household circuit can cause fire in two ways: circuit overload and sparking. Standard circuit breakers or fuses usually protect an overloaded circuit, but the breakers may not trip from intermittent sparking. For example, if you pierce or sever an electrical cable while hammering a nail into a wall, you could create an intermittent short, resulting in sparking. If the breaker does not trip, a fire could start. The AFCI is designed to detect such problems.



- A frayed extension cord
- A squeezed or pinched cord
- Old and cracked insulation on electrical wires and cables
- Loose electrical connections

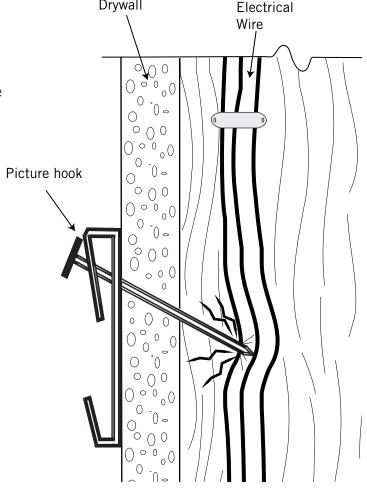
# What's the Difference Between an AFCI and a GFCI?

A GFCI, or a "ground-fault circuit interrupter," is typically installed in areas with a high risk for electrical shock, such as bathrooms (see Pillar To Post® GFCI Info Series). A GFCI protects people from electric shock, while an AFCI protects homes from electrical fires.

# What Do These Devices Look Like? Where Are They Installed?

An AFCI fits into the electrical panel in place of a standard circuit breaker. It looks like a GFCI breaker except the AFCI has a blue test button while the GFCI has an orange test button.

AFCIs are becoming mandatory in some jurisdictions. In 2002, the National Electrical Code insisted on AFCIs for all bedroom electrical outlets and their branch circuits.



Drywall

# Information Series



AFCIs may be retrofitted to any home with a modern circuit breaker panel. But before you ask your electrician to replace all your breakers with AFCIs, consider the following:

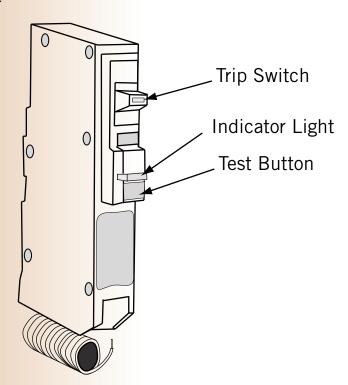
- AFCIs are expensive, about \$40 to \$60 dollars per breaker. For a typical panel, you might pay a sum of \$1,500, not including labor.
- AFCI breakers may not be available for an old panel.

# Can an AFCI Make an Old Electrical System Safer?

Old wiring has likely been subjected to years of modifications and abuse, making it a more likely candidate for sparking. Insurance companies are concerned about the safety of knob and tube wiring in particular, making an AFCI seem an ideal retrofit. But since AFCIs have not been tested with old wiring, certifying laboratories and electrical authorities cannot yet assure the public that AFCIs will perform as expected.

### **Not Quite Electrical Nirvana**

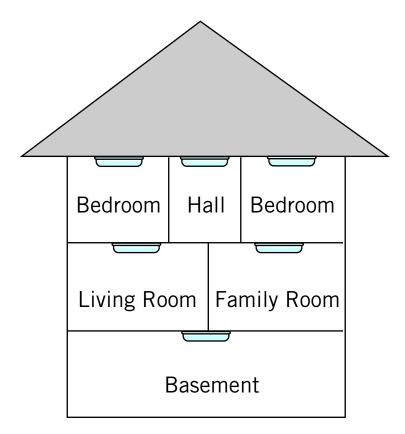
It will take several more years before statistics reflect anything concrete about how well AFCIs function. In the meantime, we can only assume that AFCIs reduce the chances of electrical spark-induced fires. Electrical authorities do plan, however, to ultimately mandate every breaker in your electrical panel as an AFCI or a GFCI, or a device that covers both, protecting people from electric shock and homes from electrical fires.



Pillar To Post® encourages anyone who feels they would benefit from AFCIs to consult an electrician. We would like to make one thing clear: we do not believe AFCIs are a quick fix for dangerous wiring, nor are they an excuse to live with an unsafe electrical system. A qualified electrician should promptly deal with unsafe wiring conditions.

# **Smoke Alarms**

Smoke alarms are an incredible success story. Once the concept took hold in the 1970s, it wasn't long before the fire death rate was cut in half! Now, more than three decades later, most homes have at least one smoke alarm but we still have a problem – the smoke alarms aren't working! In one quarter of the homes with smoke alarms. the smoke alarms don't work. The cause is missing, dead or disconnected batteries (National Fire Protection Association), Pillar To Post® would like to encourage you to pay more attention to your smoke alarms.



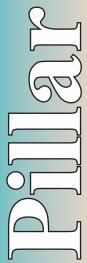
The two key goals of smoke alarms are –

- To wake you up. You can't sense smoke and flame when you are asleep.
- Early warning. The sooner you know about a fire the better the possible outcome

### **Placement of Smoke Alarms**

While you should consult the instructions provided with the smoke alarm, here are some general guidelines. We do not address local bylaws and codes here.

- There should be at least one smoke alarm per floor including the basement.
- Smoke alarms should be placed outside every separate sleeping area. Many authorities suggest an alarm inside each bedroom as well.
- The alarm can be placed on the ceiling or high up on the wall. If the alarm is on the ceiling, it should be at least four inches away from any walls. If the alarm is on the wall, it should be at least four inches but not more than twelve inches from the ceiling.
- Peaked ceilings have stagnant air at the top. The smoke alarm should be three feet from the highest point.
- Do not place the smoke alarm where it could be affected by drafts such as next to a window or air vent.







# **Maintaining**

Test the smoke alarm once per month by pressing the test button until the alarm sounds then release the button. If the smoke alarm is battery operated, replace the battery every year. If you hear a chirping sound from the smoke alarm, change the batteries. Dust or vacuum the surface periodically. Replace the entire unit if it is older than 10 years or if you are not sure how old it is. Print the installation date inside the cover.

# **False Alarms**

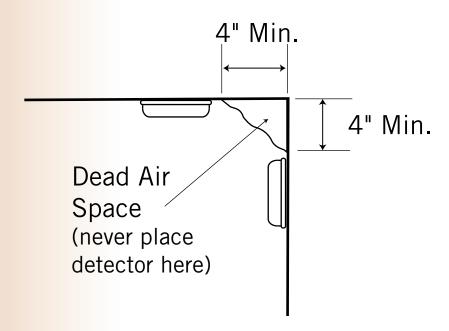
Nuisance tripping of your smoke alarm is bound to happen occasionally. Unfortunately, many people remove the battery to silence the alarm with the good intention of replacing it after the smoke clears. Here are some better ways to deal with nuisance tripping: Use an alarm with a 'hush button'. Move the smoke alarm a little further from the kitchen area. Try a different type of alarm. Some experts say that a photoelectric smoke alarm is a little less sensitive to common causes of false alarms.

### **Hard Wired Alarms**

Many homes today have smoke alarms wired right into the household electrical system. In addition, some homes have interconnected smoke alarms. This means if one alarm in the home sounds then the others sound as well.

# **Escape Plan**

Smoke and flame can spread quickly so you need to react quickly. It is vital that you and your family know what to do on hearing a smoke alarm. You should plan an escape route from every area of the home and identify a safe area to meet outside the home. You should rehearse the escape plan with your family. Walk through and identify obstacles that may slow you down such as windows that are jammed or exits that are crowded with storage etc.



# **Carbon Monoxide**

Carbon monoxide, or CO, a byproduct of incomplete combustion of fossil fuels, is a colorless, odorless gas. Breathing CO reduces the blood's ability to carry oxygen. In severe cases, CO can cause death.

Defective or malfunctioning fossil fuel appliances, or inappropriate use of appliances that burn fossil fuel close to or inside the home can pose a serious health hazard. Here are a few examples of dangerous operations:

- Running an automobile or gas lawn mower inside the garage
- Operating a barbeque inside the home
- A gas or oil burning furnace with a blockage in the chimney
- Kerosene space heaters
- Operating a generator in the home during a power failure

# Alarm Detector Digital Read-out Carbon Monoxide Detector

# **Symptoms of Carbon Monoxide Poisoning**

Symptoms of carbon monoxide poisoning include headache, dizziness, nausea, vomiting, weakness, chest pain, confusion, and loss of consciousness. Carbon monoxide poisoning can lead to death. Low level poisoning may go unnoticed because it may be mistaken for the flu.

# Carbon Monoxide Detector

You should have at least one carbon monoxide detector in your home. In some geographic areas, a CO detector is required by law. The CO detector should be placed where you can hear it if it goes off when you are asleep. A CO detector does not have to be placed on the ceiling, since unlike smoke, CO has approximately the same weight as air so it mixes

# Information Series



uniformly throughout the room rather than floating up to the ceiling. To avoid false alarms, do not install the detector next to heating and cooking appliances, vents, flues, or chimneys. Make sure you read and follow the operating, placement, and testing instructions that come with the detector.

If the carbon monoxide detector alarms, take it seriously.

# **Avoiding CO Poisoning**

- Have your heating systems serviced every year by a qualified technician.
- Have your fireplace chimney cleaned and inspected every year.
- Install at least one CO detector in your home and replace the batteries twice per year.
- Open the garage door prior to starting your car; drive the car out promptly. Do not leave it idling in the garage. Do not use a remote car starter when the car is in the garage.
- Do not use a charcoal or propane barbeque in the home.

If you are installing only one carbon monoxide (CO) detector, it should be located where you can hear it if it goes off when you are sleeping. For greater safety, multiple CO detectors can be installed throughout the home. Follow the instructions packaged with the detector.

Bedroom Hall Bedroom CO Detector

Main Level

Basement