

Ham VHF Radio Kit



Portland Fire & Rescue



Each PF&R fire station has a kit.

Everything Fits!





A Basic "How To"
THE ONLY 50 WATT KIT FOR SALE

1) Plug into the power supply. Plug power supply into AC wall.

2) Plug antenna into socket. See **ANTENNA** for full details.

3) Plug other end of power supply into the power source plug.
A. Connect to a computer system to use the radio as a modem.
B. Connect to a mobile phone to use the radio as a mobile phone.
C. Connect to a laptop to use the radio as a laptop-to-radio interface.
D. Connect to a mobile phone to use the radio as a mobile phone.
E. Connect to a mobile phone to use the radio as a mobile phone.

4) Turn power supply to ON.

5) Set up your radio to use the kit. See "SETUP" for details.

6) Turn on the radio. See "OPERATION" for details.

7) Turn on the radio. See "OPERATION" for details.

8) Turn on the radio. See "OPERATION" for details.

9) Turn on the radio. See "OPERATION" for details.

10) Turn on the radio. See "OPERATION" for details.

Attention Firefighters:
This is a radio that has been set up for Fire Department use. See the "SETUP" section.

VHF Radio
Main Case

Kit contains one VHF radio

*Two models:
IC-2100H & IC-2200H
(almost identical)*



Power: 5, 10, 25, or 50 watts

There's three ways to
feed it power and three
ways to feed it an
antenna.

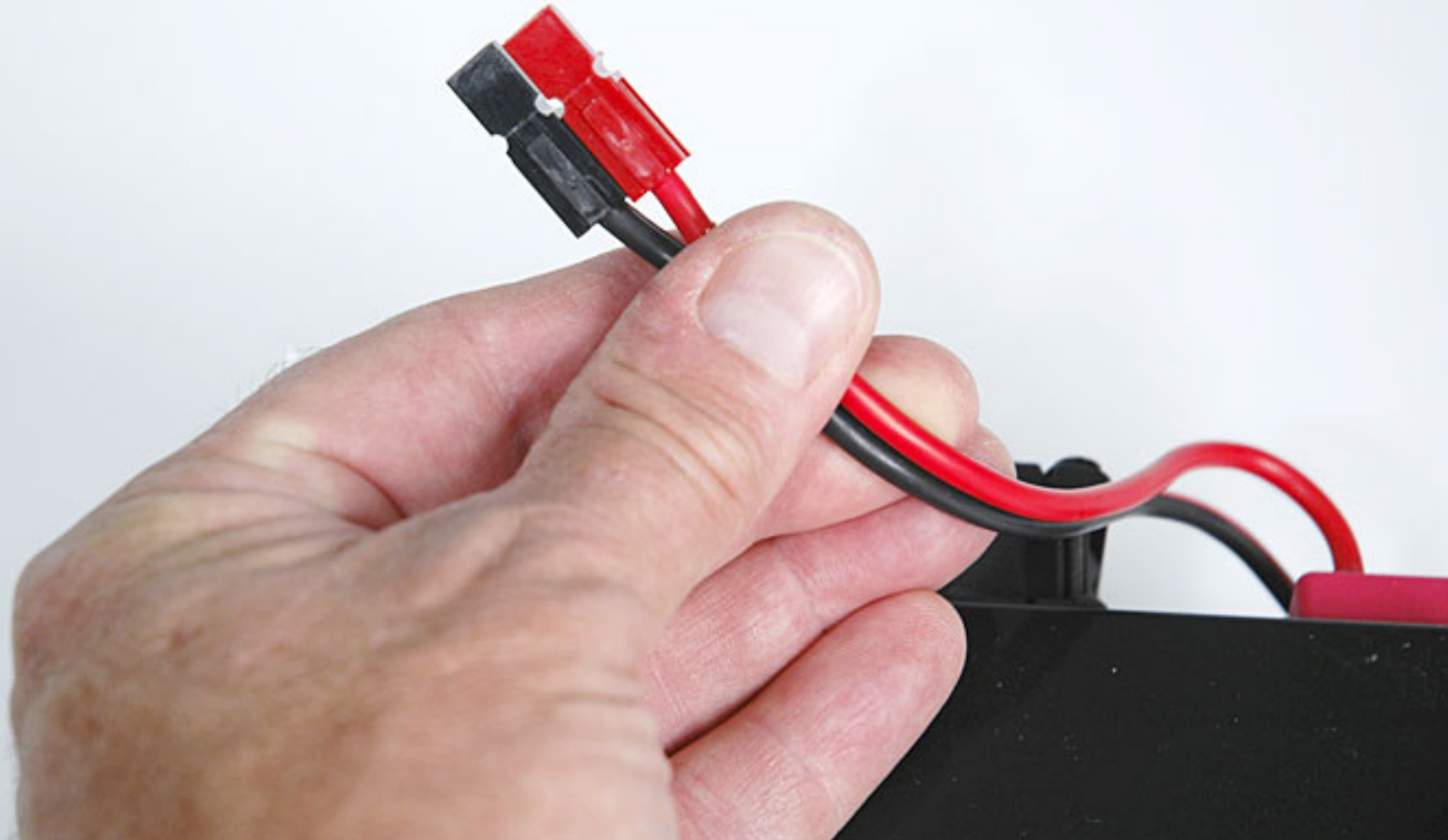
“A backup to the backup”

Power:

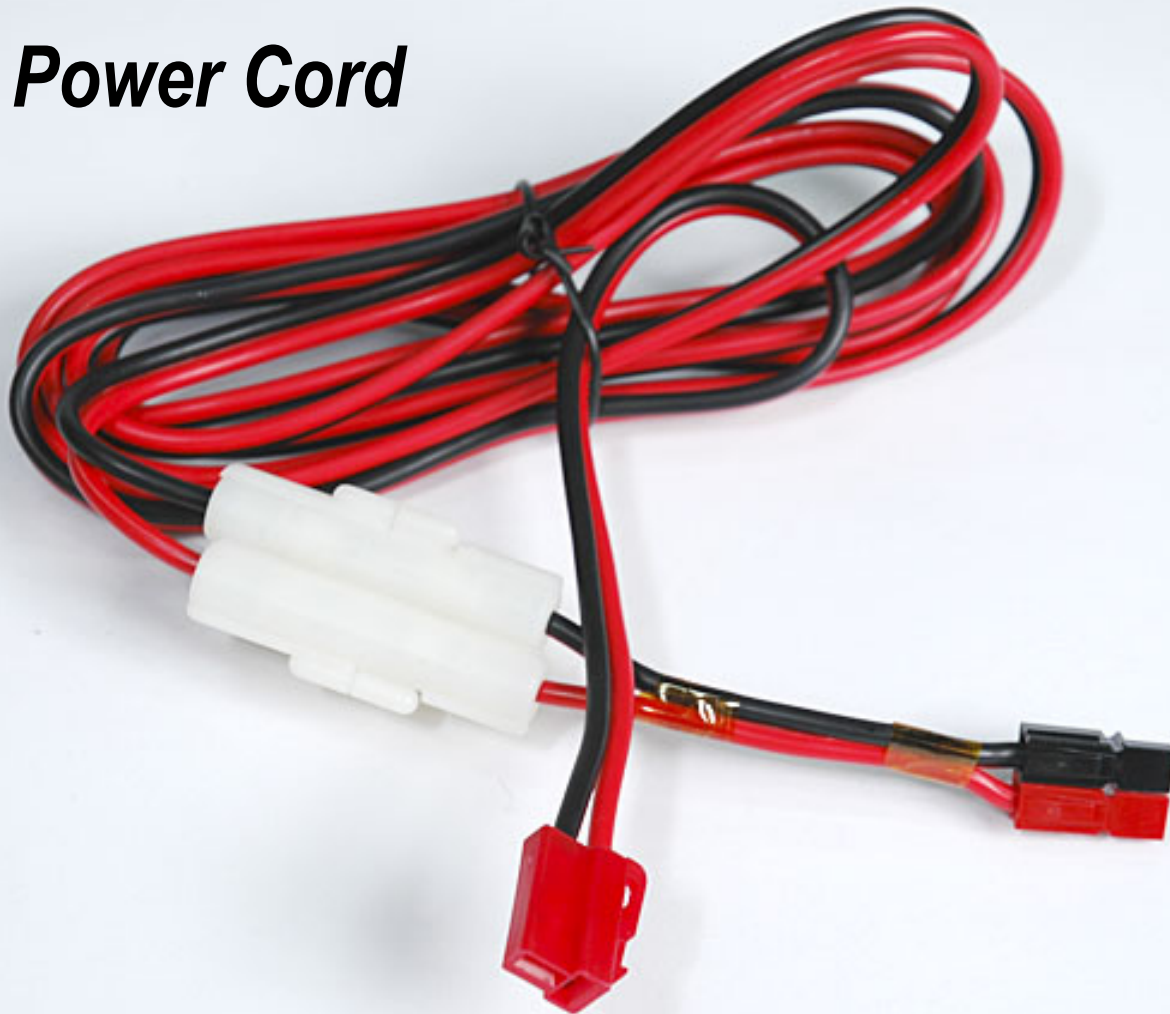
AC Power Supply



it uses Anderson DC Power Plugs



Radio Power Cord



It goes from the power supply to the radio

Power cable for AC Power Supply



Two 50 foot Extension Cords



Car Battery Adapter



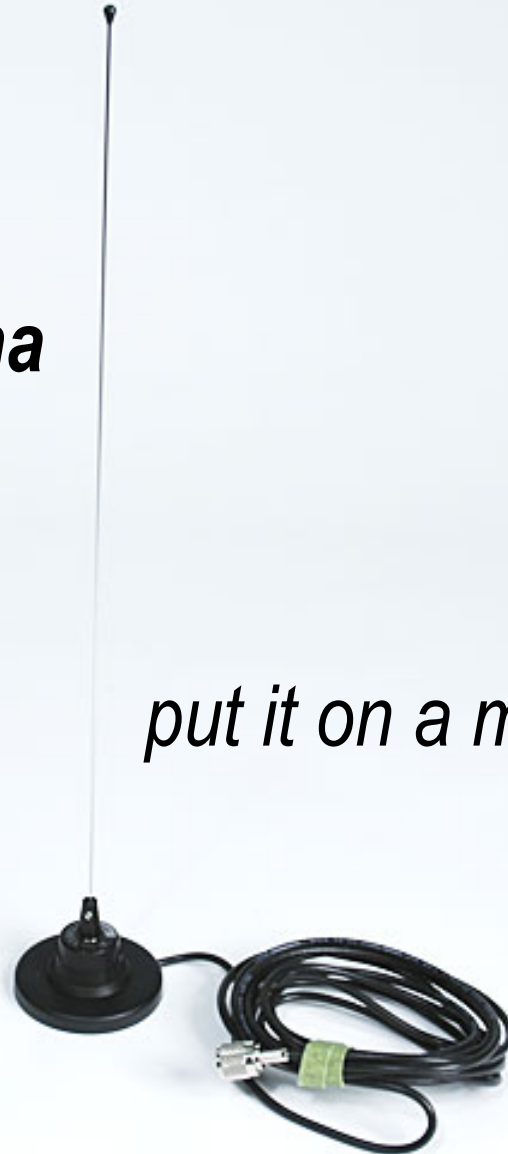
Cigarette Lighter Power Adapter



Antennas:

Magnetic Mount Antenna

put it on a metal surface



Roll-Up Antenna



50' Rope

Fire Station Antenna



Also included:

Coax Cables



*Always use the
short cable if
possible!*

25 foot




100 foot

Zippered Pouch



Notebook

A Basic "How To" Two Ways to Set Up the Radio Kit:



1) Plug radio into power supply. Plug power supply into AC outlet.

2) Plug antenna cable into radio. *Use **short** cable if it will reach.*


3) Plug other end of antenna cable into fire station antenna plug.
ALTERNATE 1: Plug antenna cable into red-top antenna and fit antenna into a Post, etc. Keep antenna away from metal and at least six feet from power supply.
ALTERNATE 2: Use magnetic mount whip antenna - be sure to put antenna on metal car roof or other large metal object. A separate lighter power adapter is in this kit.

4) Turn power supply & radio ON.

5) Turn large knob on radio until you see "1" in memory number indicator.
*Close the number **DISSE** when you turn knob? Don't worry, you're not in Memory Mode. Put 2 in Memory Mode by pushing button below [MCALL] briefly. You may need to push this button more than once.*

6) Listen. Do you hear people talking? No? Push microphone button and identify yourself.
*If no one answers, the speaker might be broken. Turn large knob to Memory #2 and repeat step 5. If no response? Go to Memory #3 and repeat step 5. Keep going if you get all the way to Memory #5 without luck, return to Memory #1 and repeat the process. **WARNING:** It will take time for people to get on the air.*

Attention Firefighters:
In a disaster this Ham radio can operate on Fire Department VHF frequencies. See the "FIRE ONLY" section.



Notebook has the **TEMPLATE**

Memory #	Frequency	Notes
1	146.84- (no tone)	Primary repeater for Multnomah County / Portland EOC
2	147.28+ (167.9 Hz tone)	Secondary repeater for Multnomah County
3	146.94- (no tone)	Tertiary repeater for Multnomah County
4	146.73 SIMPLEX	Primary simplex for Multnomah County
5	146.52 SIMPLEX	Secondary simplex for Multnomah Co. (and National Calling Frequency)

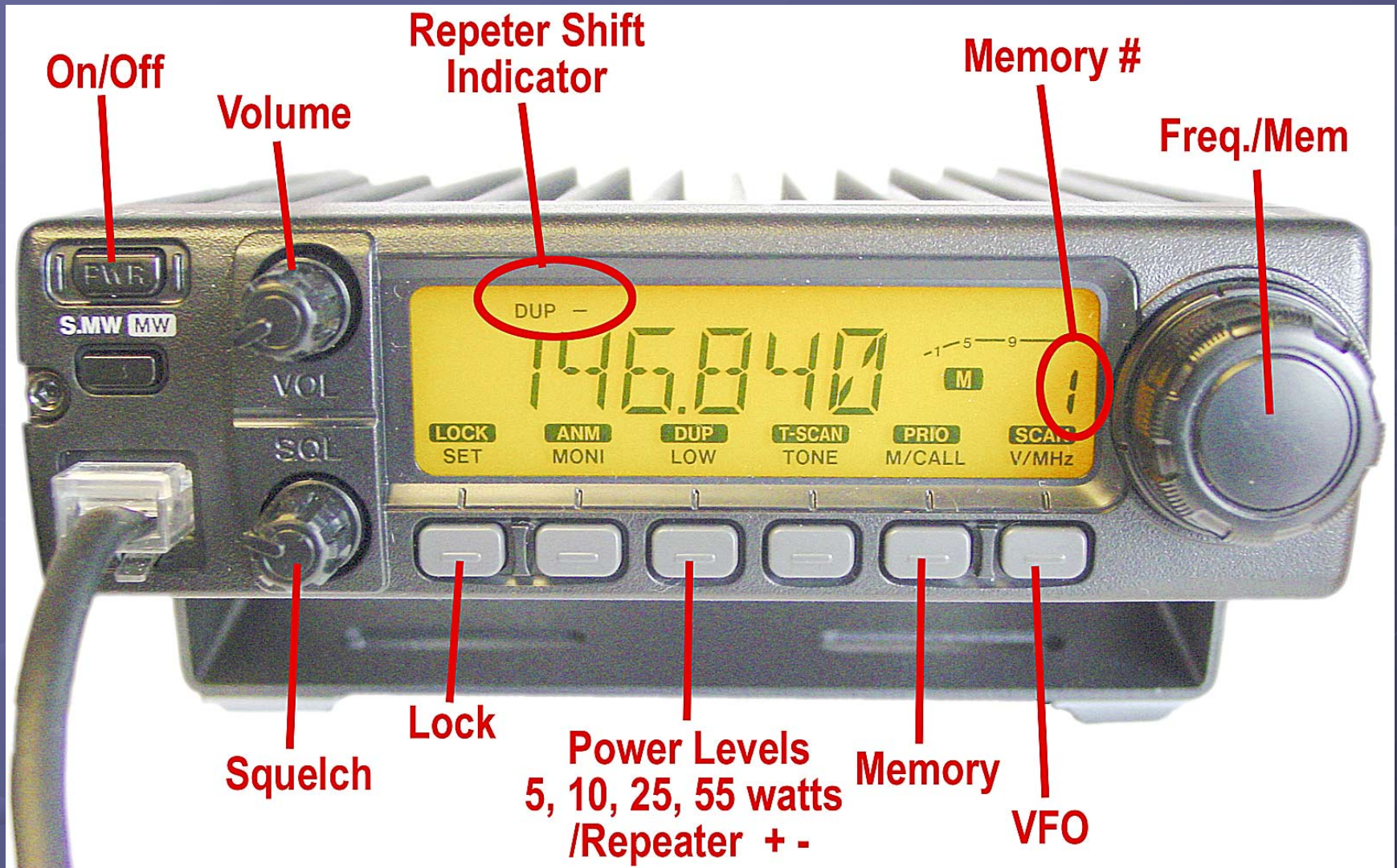
HF: 3993.5 kHz, / 7248 kHz / 1978 kHz LSB

(a detail of the template's Memory Channel Numbers)

The **TEMPLATE**
is flashed into
each radio.

ADDITIONAL MEMORY CHANNELS		
Memory #	Frequency	Notes
11	147.42 SIMPLEX	Red Cross and adjacent Counties
12	146.98- (tone 123.0)	Red Cross area shelters
13	147.12+	Clackamas Co.
14	147.14+ (tone 107.2)	Clackamas Co.
15	146.415 SIMPLEX	Clackamas Co.
16	147.24+	Clark Co.
17	146.88- (tone 114.8)	Columbia Co.
18	147.470 SIMPLEX	Columbia Co.
19	146.90-	Washington Co. Primary repeater
20	145.19-	Washington Co. Secondary repeater
21	147.400 SIMPLEX	Washington Co.
22	146.64-	Yamhill Co.
23	145.49+	Yamhill Co.
24	147.48-	Yamhill Co.
25	146.540 SIMPLEX	East Multnomah Co.
26	146.86-	Oregon State EOC
27	147.02+	Oregon State EOC
28	146.88-	Oregon State EOC
29	146.500 SIMPLEX	Lake Oswego
30	145.560 SIMPLEX	Oregon City
31	146.565 SIMPLEX	Oregon City
32	146.460 SIMPLEX	Canby

There's also setup & operating instructions.



Radio Station Set-Up

Roof Antenna

Roof Antenna Plug
on Fire Station



AC power from Fire Station



Radio Power Supply



Fire Station Set-up

Fire Station VHF Antenna

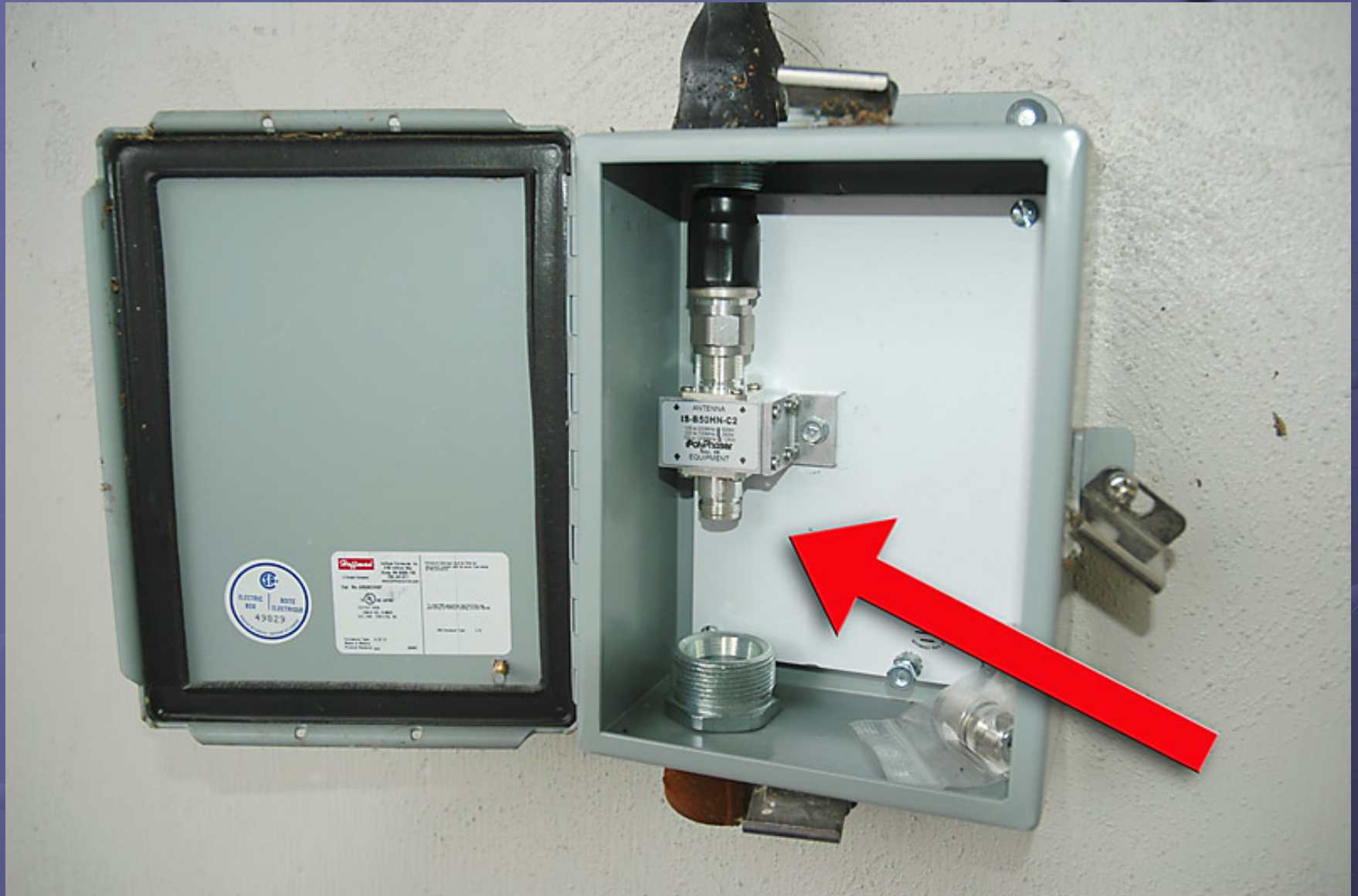


Antenna Access Plug

Weather-tight antenna box



Inside it is the antenna plug



Tie the kit's roll-up antenna into a tree, etc.
Keep it away from metal, and place it more than
6 feet from the radio & battery / power supply.

Roll-up Antenna

(antenna distance
not to scale!)

Car Battery Adapter Cable in Kit



Field Set-up

Storing the Kit

Coil the cables carefully – don't dogbone it!



No!

***And remember:
Everything Fits!***





Disaster Communications