

# *Amateur Radio Go-Box*



**KG4RUL**

# Goals

- **Utilize Commercially Available Box**
- **Contain Multi-band, Multi-Mode Radio**
- **Contain AC Power Supply**
- **Contain HF Auto-Tuner**
- **Provide Connections for External DC Power**
- **Provide Connections for Antennas**

## **RADIO - Yaesu FT-100D**

- 160M – 70CM Coverage
  - FM, AM, SSB, CW, Digital Modes
  - Interfaces w/External Auto-Tuner
- NOTE: Other small All-Band/All-Mode radios may be used in this application**

## **Power Supply - MFJ-4125P**

- Switching PS
- 22A Continuous
- ARES® Standard - PowerPole Connectors

## **AUTO TUNER – LDG YT-100**

- 160M-6M
  - Powered from Radio
  - One-Button Tuning
- NOTE: This tuner style is also made for iCOM and Kenwood radios**

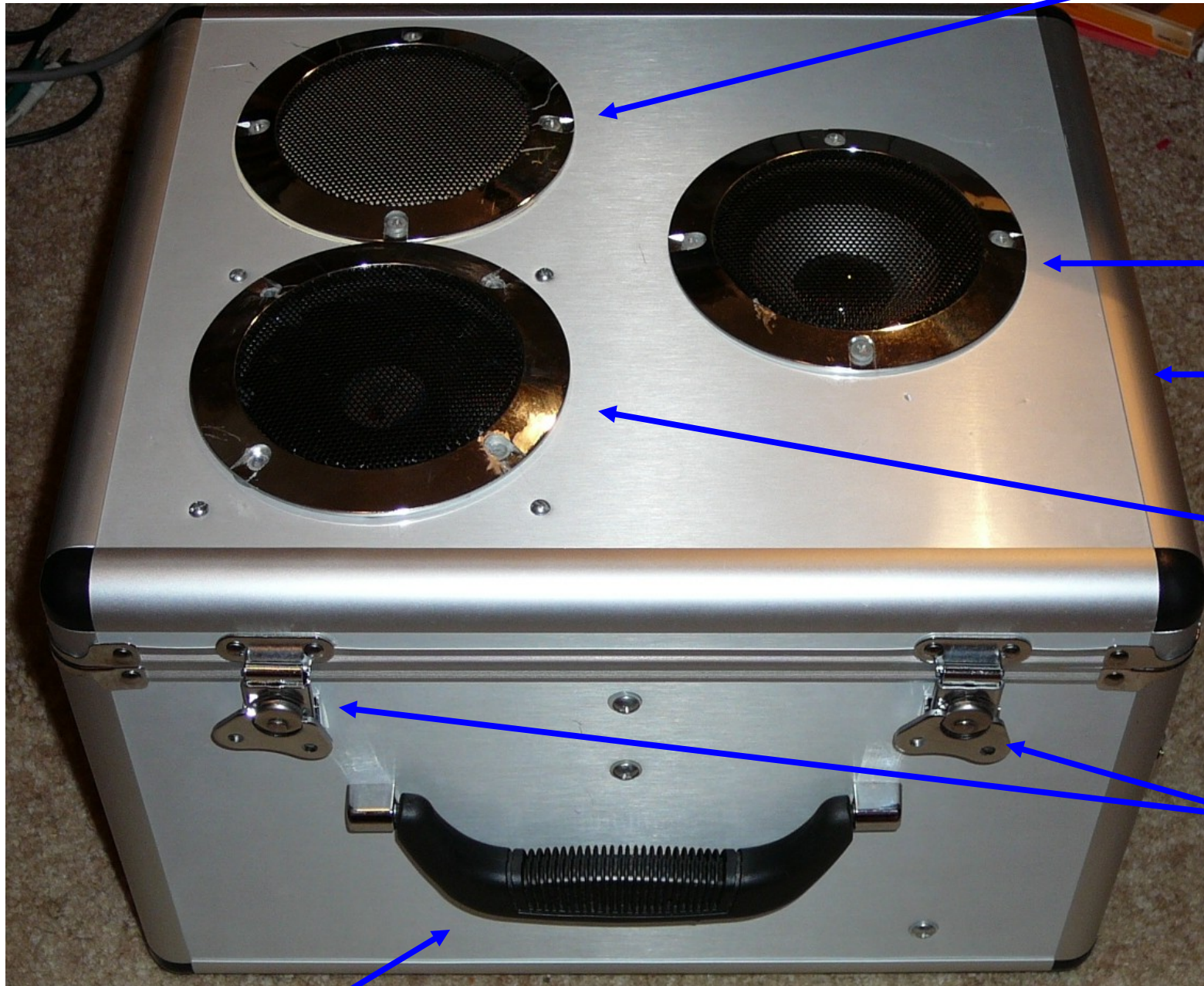


**Door Latch**

**Removable Door**

**Front of Case**





**Unused**

**Speaker**

**Hinged Lid**

**Cooling Fan  
(Pressurizes  
Case)**

**Lid Latches**

**Carrying Handle**

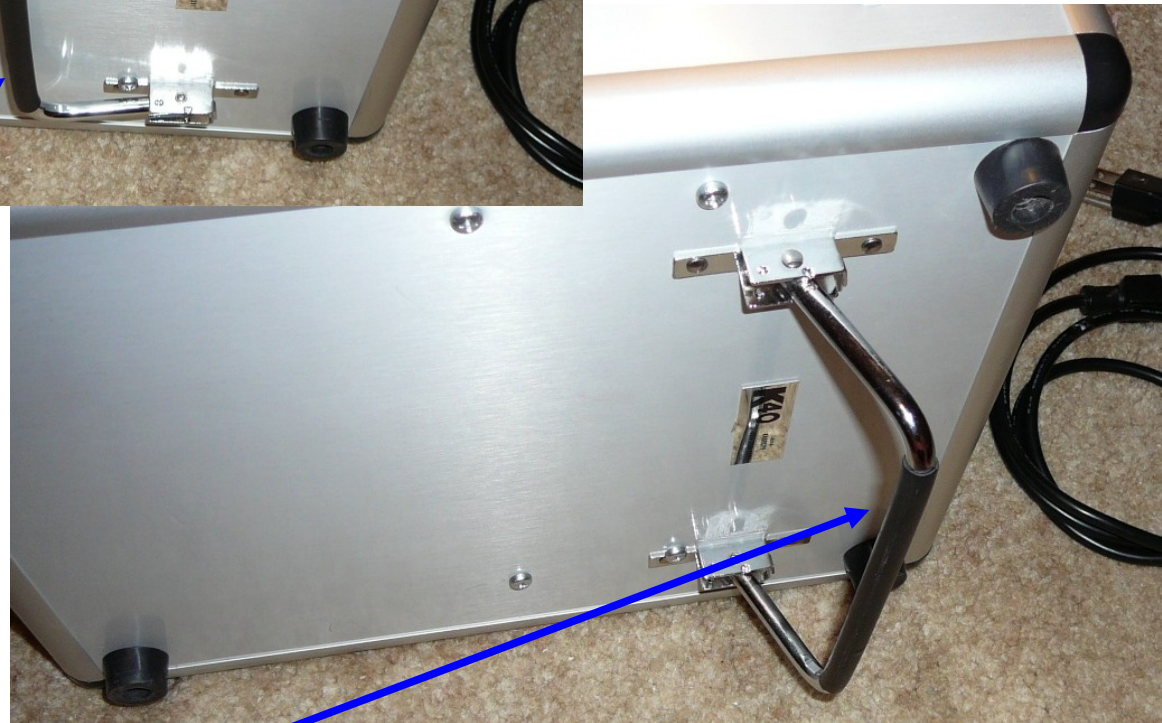
**Top & Left Side of Case**



**The case is equipped with a bail to raise the front of the case for easier viewing**



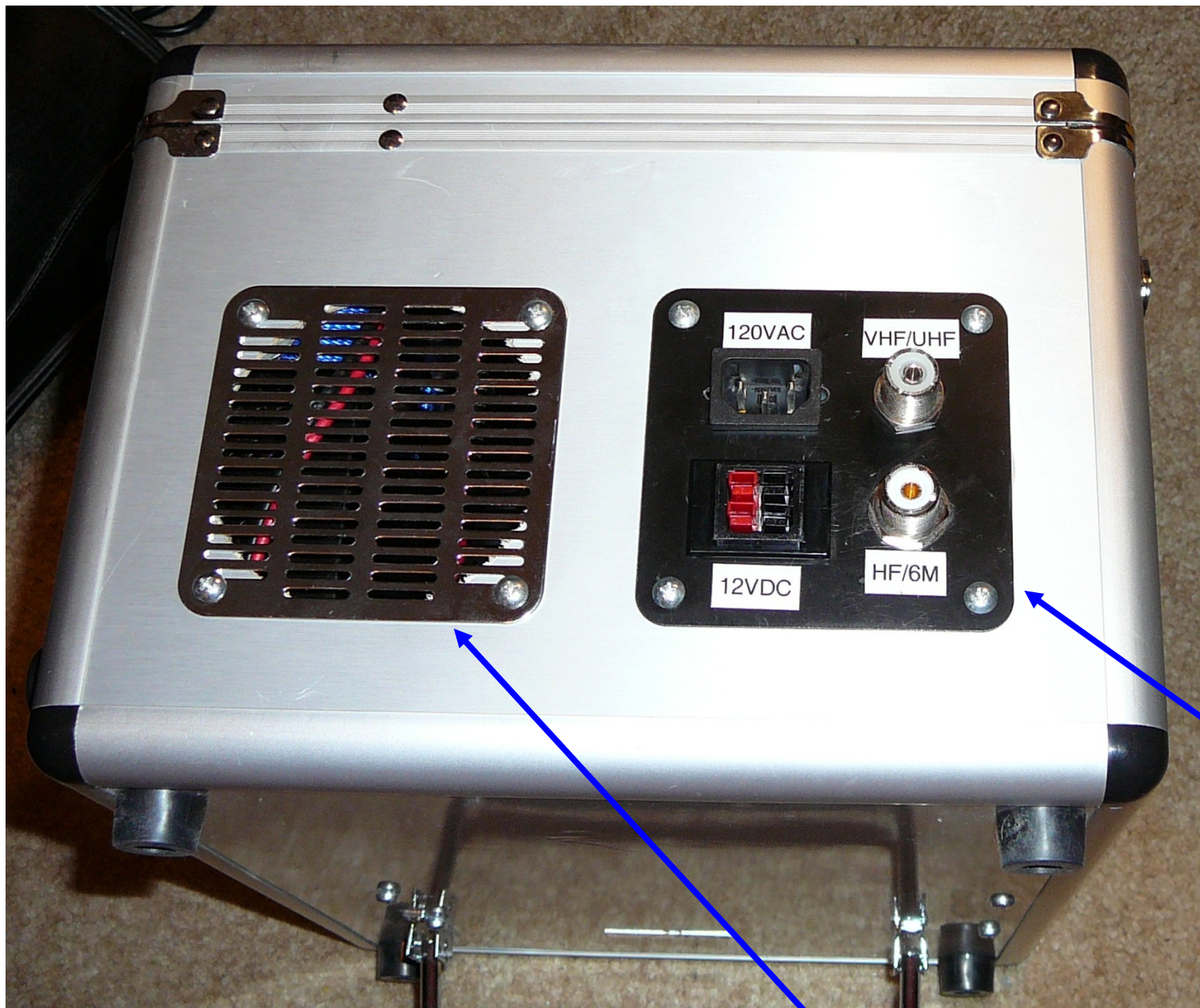
**Bail Stowed**



**Bail Extended**

**Bottom of Case**





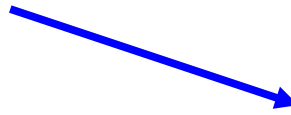
**Connector  
Panel**

**Back of Case**

**Exhaust Air Vent**



**Access Door Opened**



**Access Door Removed**





**LDG YT-100 Auto-Tuner**



**FT-100D Transceiver**





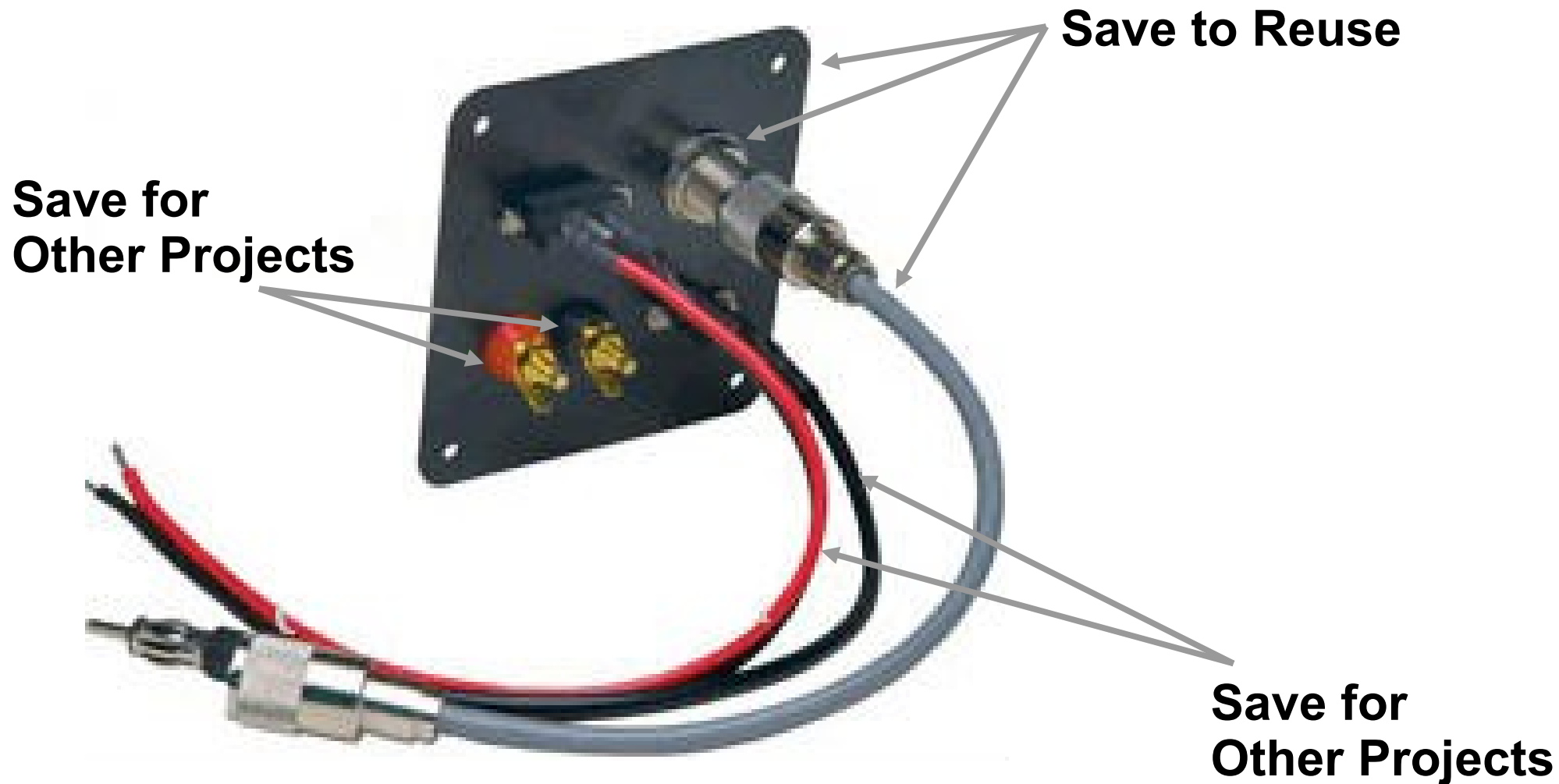
**Ventilating  
Fan**

**Radio External  
Speaker**

**Blanked Out  
Opening**

**Lid Interior View**

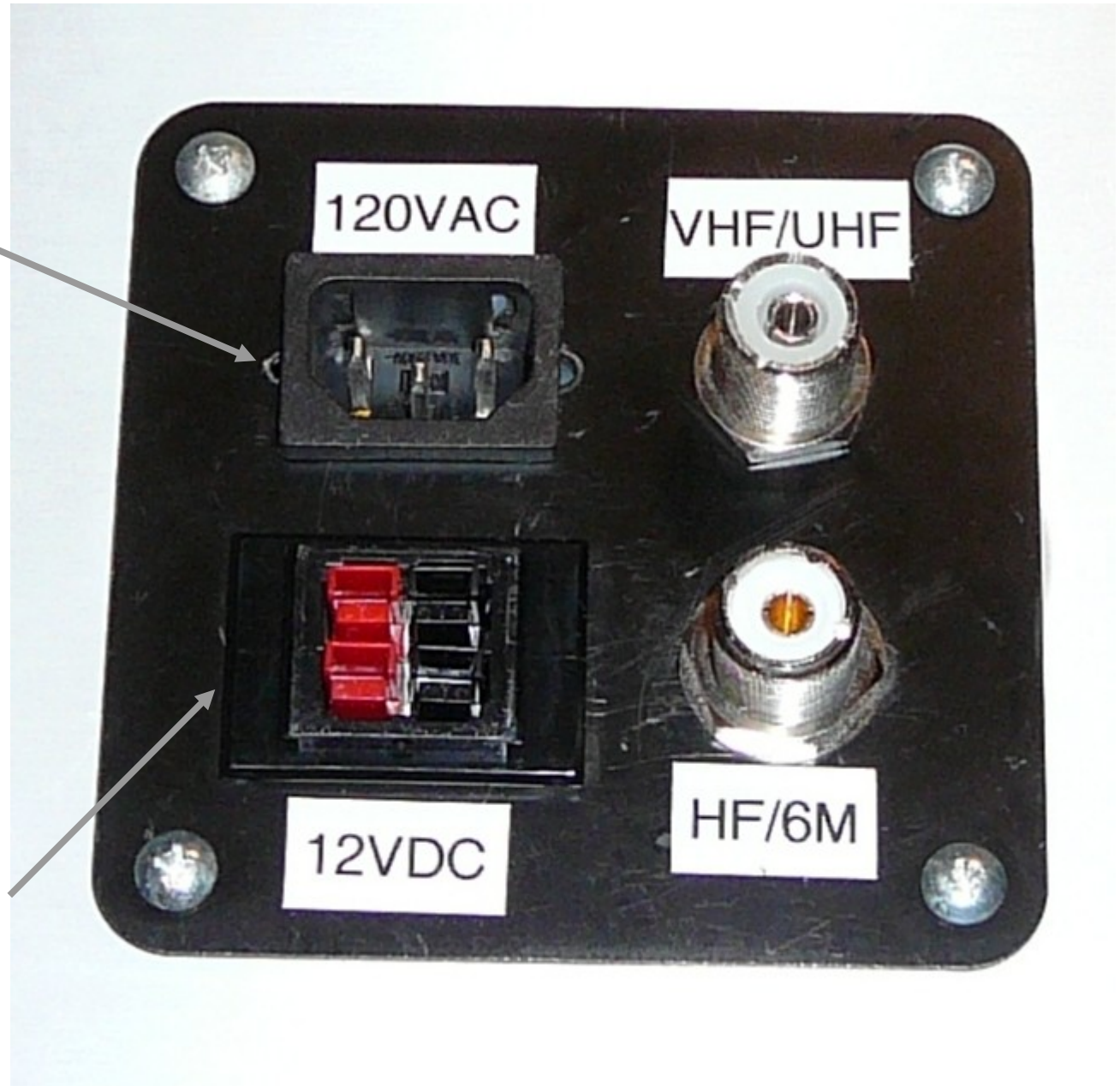




**Connector Panel from K-40 Box**

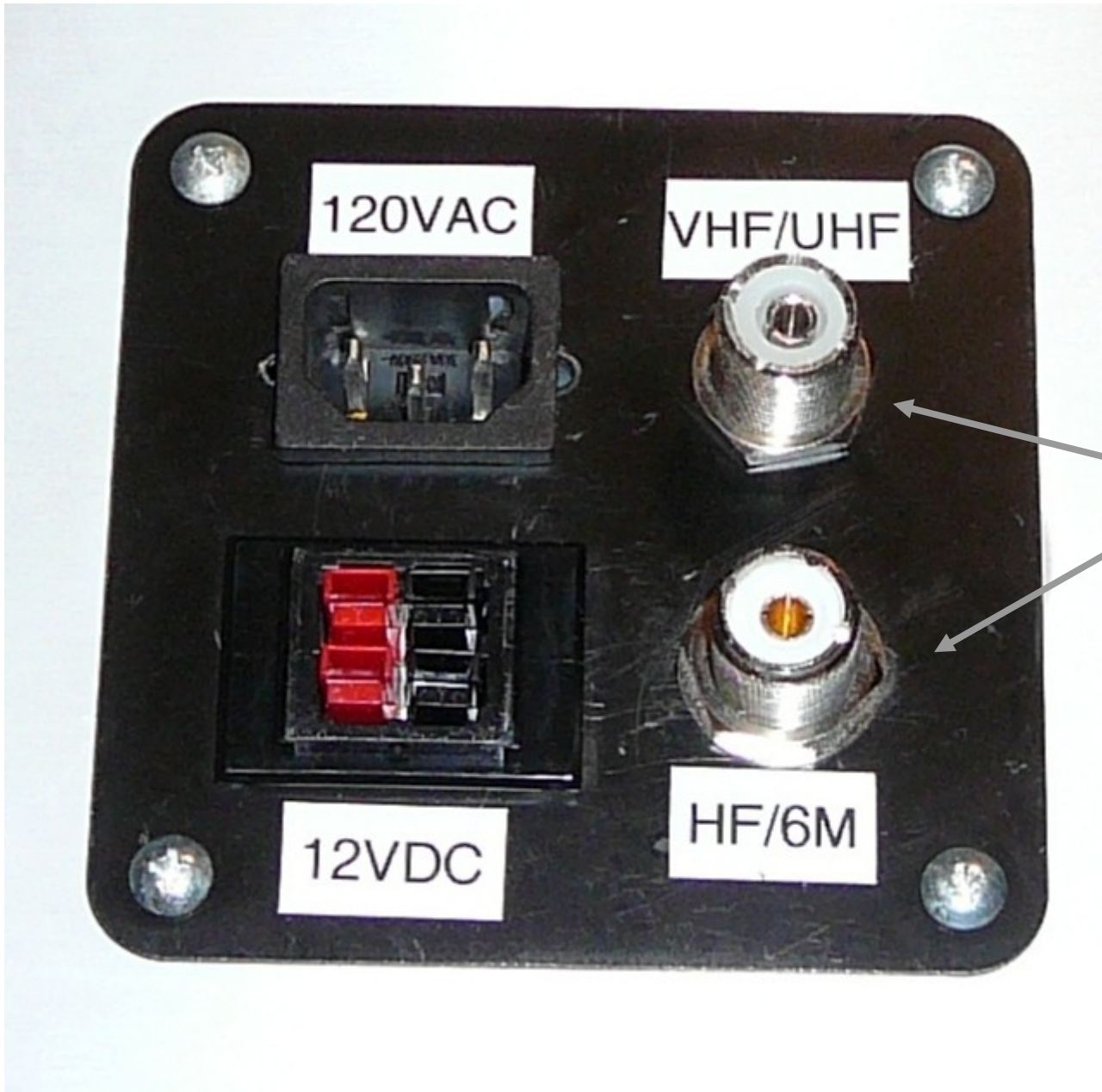
**AC Receptacle to  
Accept 3 Wire,  
Computer Power  
Cord –  
Connected to 3  
Wire, Standard  
AC Receptacle to  
Accept PS Power  
Plug**

**Dual, ARES® Standard,  
PowerPole Connectors**



**Finished Panel**





**RF  
Connectors**

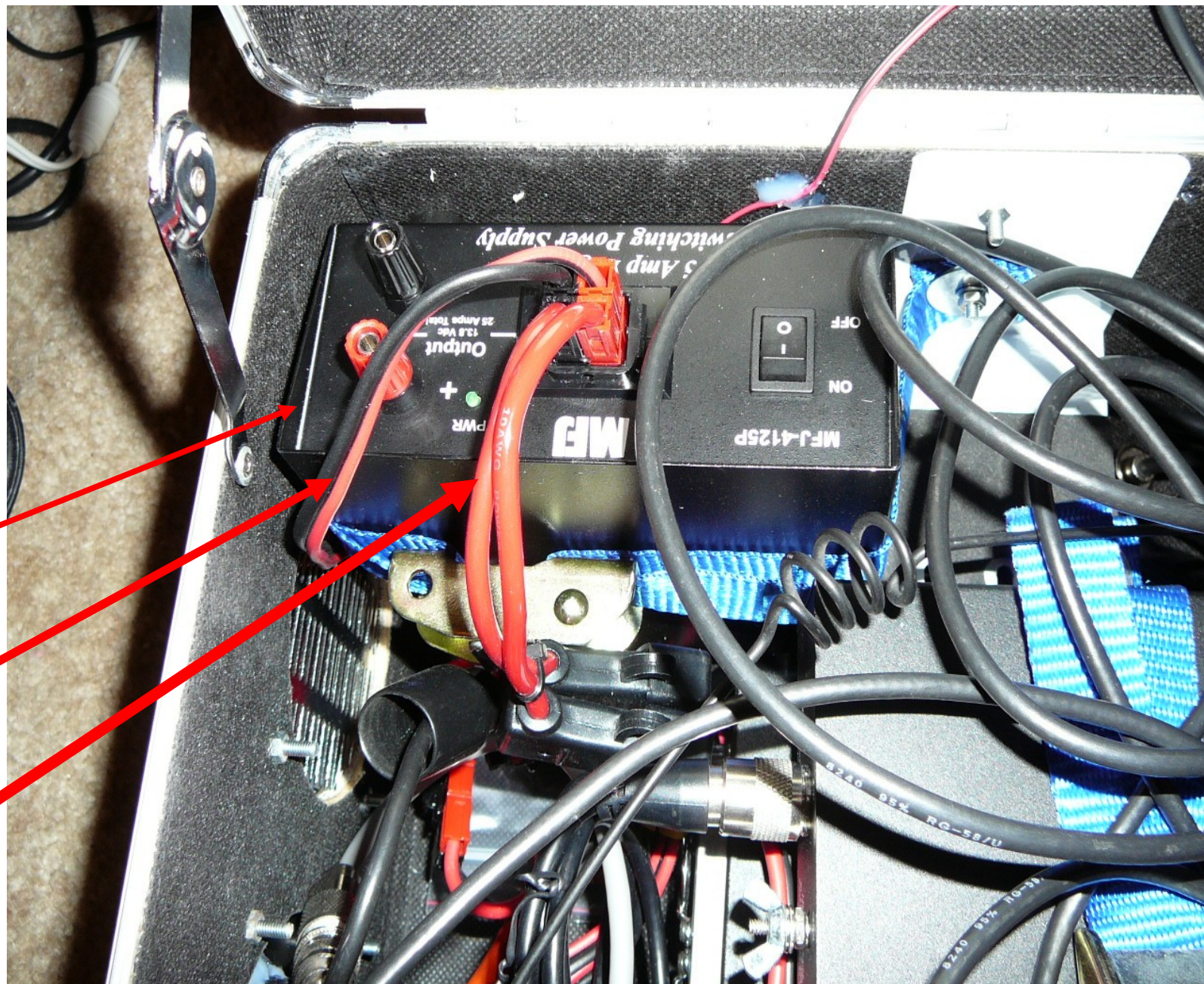
**Finished Panel**



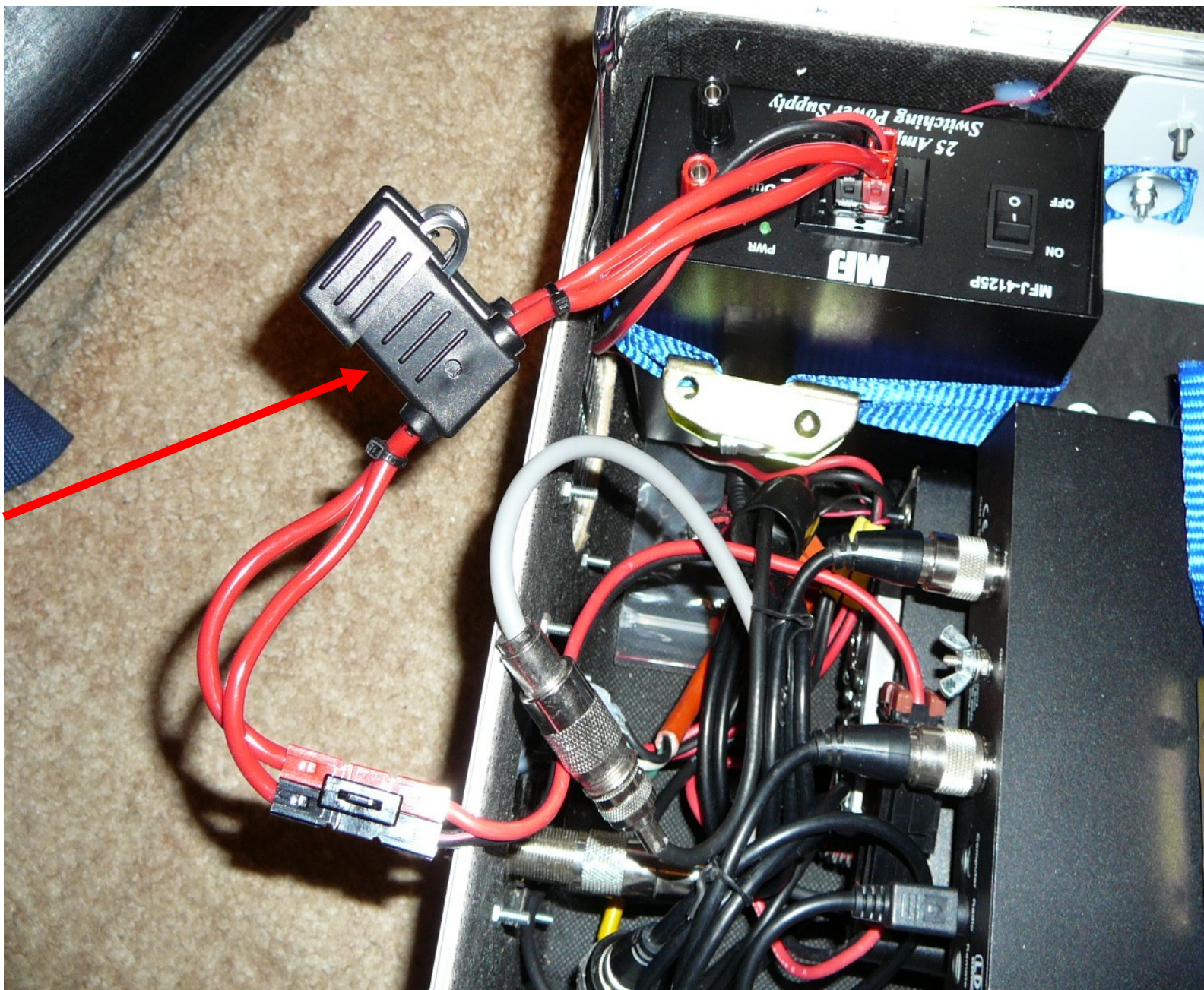
**MFJ 4125P  
Power  
Supply**

**To Back  
Panel**

**To  
FT100D**



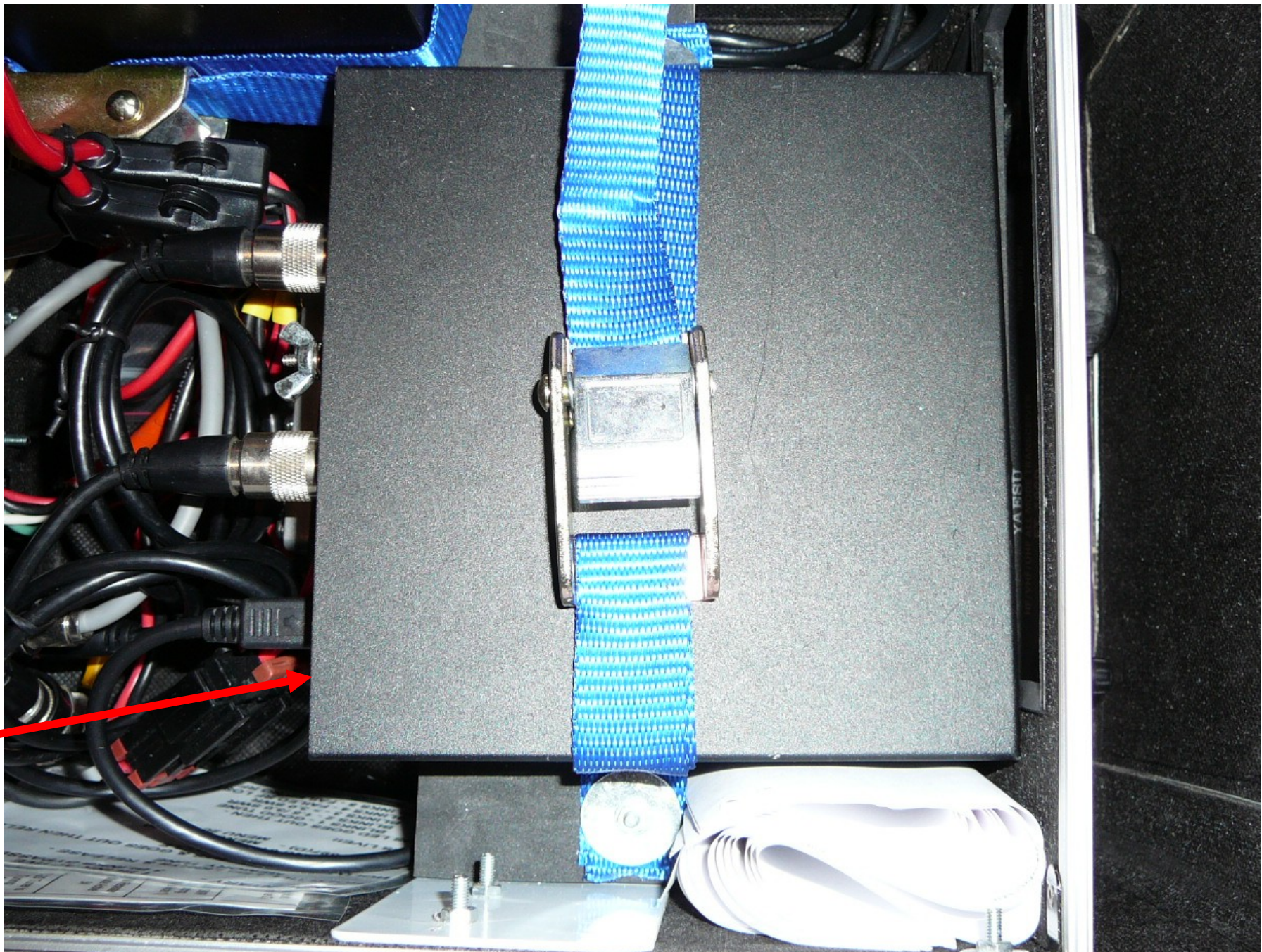




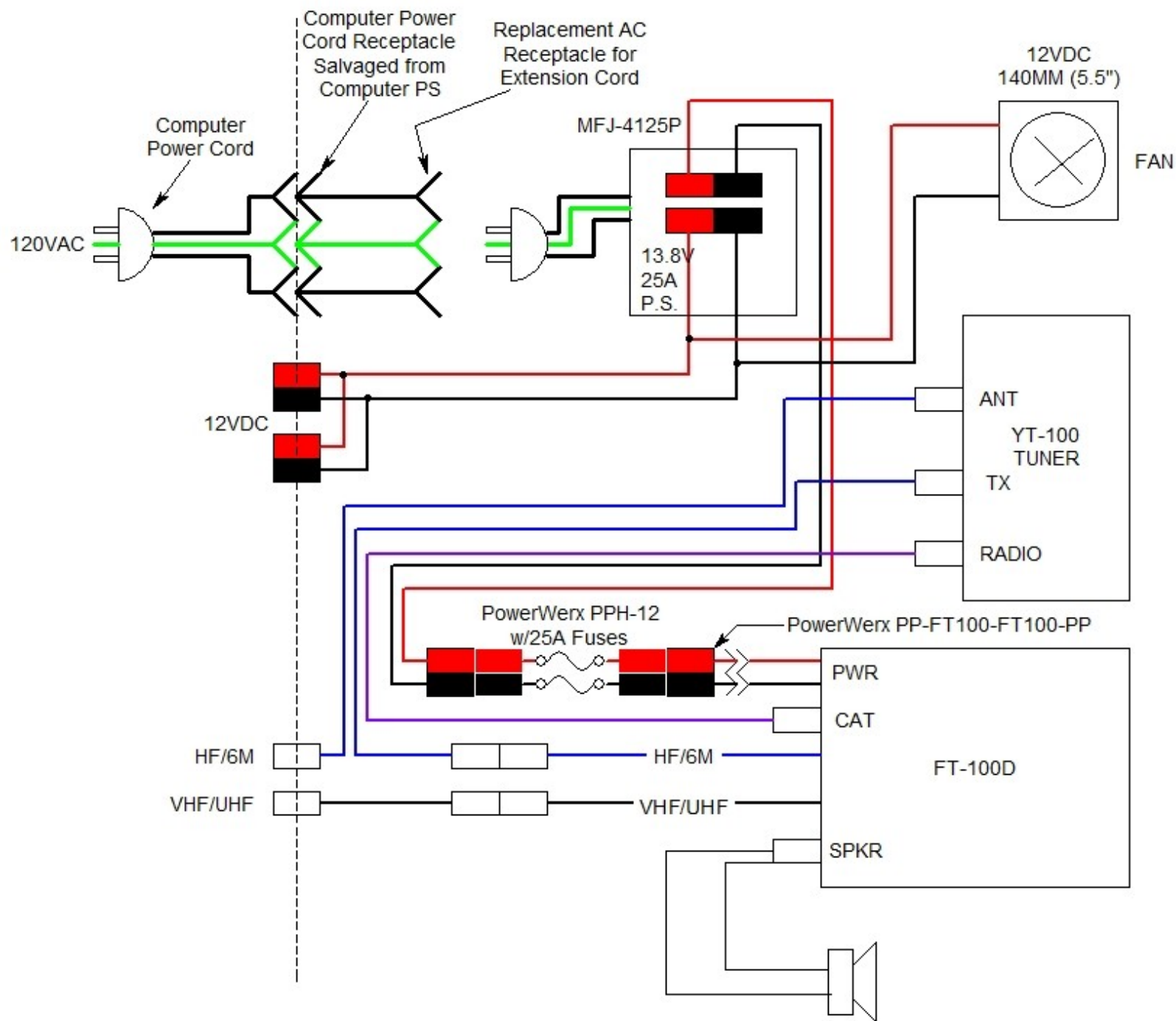
**Radio Fuses – 2  
Automotive Style  
Blade Fuses**



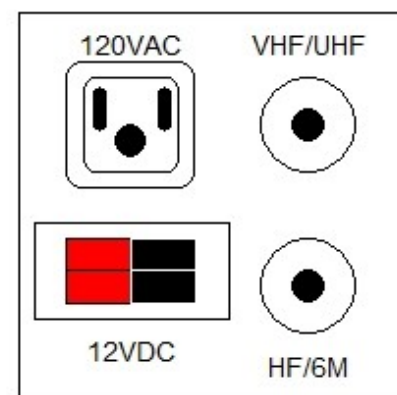
**YT-100  
Tuner**







Connection  
Panel  
Legends



MFJ 4125P Switching Power Supply

<http://www.mfjenterprises.com/Product.php?productid=MFJ-4125P>

LDG Electronics YT-100 Tuner

<http://www.ldgelectronics.com/c/252/products/1/52/1>

PowerWerx Chassis Mount for 2 PowerPoles

<http://www.powerwerx.com/anderson-powerpoles/accessories/powerpoles-chassis-mount-2-sets.html>

ATC Style Fuse Holder

<http://www.powerwerx.com/fuse-holders-fuses/atc-inline-fuse-holders-powerpoles-12-gauge.html>

PowerWerx Powerpole to FT-100 Universal both sides adapter (use the side that adapts from FT-100 to PowerPoles)

<http://www.powerwerx.com/adapter-cables/powerpole-ft100-universal-adapter.html>

K40 Slip Seat Road Cases

Small Pro Series "Plug & Play" RoadCase

<http://www.roadtrucker.com/slip-seat-road-case/k40-slip-seat-road-cases.html>