



# WA4DXP

## Bicycle Mobile

- ◆ Presented by M.D. Smith
  - ◆ Huntsville, AL
  - ◆ HARC Presentation
  - ◆ Nov. 22, 2013

**The KEY to Bicycle Mobile is  
understanding how it is done.**

# WA4DXP Bicycle Mobile



◆ HARC Presentation Nov. 22, 2013



# 2 Meters HT Simple



**Just a camera bag from Walmart**

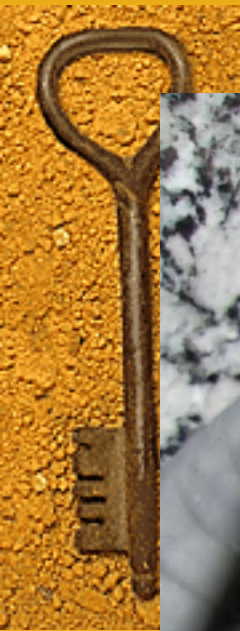


The belt loop velcros to handlebar





2 Meters HT bag, card & pen







Full simple  
HT outfit,  
with rubber  
duck antenna  
and speaker  
mike clipped  
to V-neck of  
Jersey (or  
jacket in cold  
weather).



# Simple QSL Card at copy house



**HUNTSVILLE, ALABAMA USA**

Madison County - EM64rr

# WA4DXP



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[mdsmith@hiwaay.net](mailto:mdsmith@hiwaay.net)

[www.reloadammo.com](http://www.reloadammo.com)

**You had FM 2-way contact with  
WA4DXP/bicycle mobile 5 watts.**

**Thank you for the contact. I have MFJ**

**J-pole antenna on a bike fiberglass flag pole on my Mt. Bike for better  
coverage on the Yaesu FT-250 HT than the rubber duck you see.**

Station \_\_\_\_\_ Day \_\_\_\_\_ Mo \_\_\_\_\_ Yr \_\_\_\_\_ UTC \_\_\_\_\_ QSL PSE TNX

But that didn't hit the 147.18 repeater to do IRLP work all over the world. Just had to have a better antenna to get to Brindlee Mt. for solid copy during my bike rides.





# Add Antenna on back





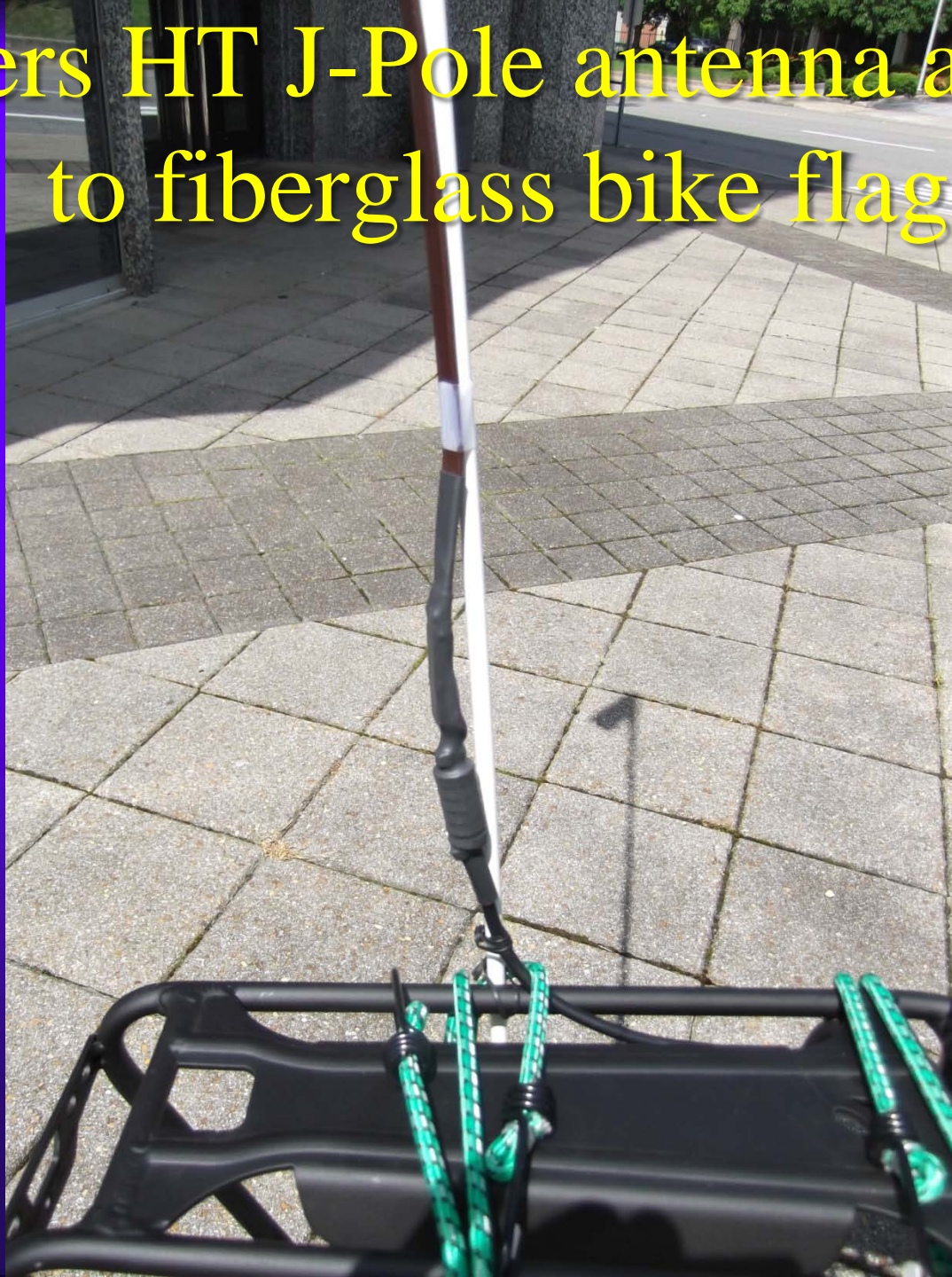
# 2 Meters HT J-Pole antenna



**Run antenna cable to rear**



2 Meters HT J-Pole antenna attached  
to fiberglass bike flag





J-Pole antenna attached to bike flag,  
but ended up trimming 6" on top





# J-Pole antenna on bike flag





2 Meters HT bike finished, but. .





Then I saw WB2MLY, Ray's bike



Using a Yaesu FT-857D on his bike

And I happened to have one



So I had to move ahead with HF, but my 2-M  
Trek (20 years old) works so good and I need a  
different rack and I can barely step over the bar  
... What I need is a less expensive ladies bike  
and start new.



Here's a Schwinn 700C Womens Hybrid  
Comfort Bicycle – Mint color, \$220 new



**Smaller hybrid road tires and shock absorbing**

Now a heavy WALD rack for gear & ant.





Then they come together . . .





# Radio Handlebar Swivel Mount . . .



**WARNING**  
Review and follow all safety instructions contained in the  
owner's manual. FOR YOUR SAFETY, NEVER MISUSE,  
ABUSE, OR IMPROPERLY INSTALL, MAINTAIN, OR  
MODIFY THIS PRODUCT. ALWAYS KEEP IN MIND SAFETY FIRST!  
CAUTION: THIS PRODUCT IS NOT RECOMMENDED  
FOR COMPETITION, STUNTDRIVING, OR  
EXCESSIVE OFF-ROAD RIDING.





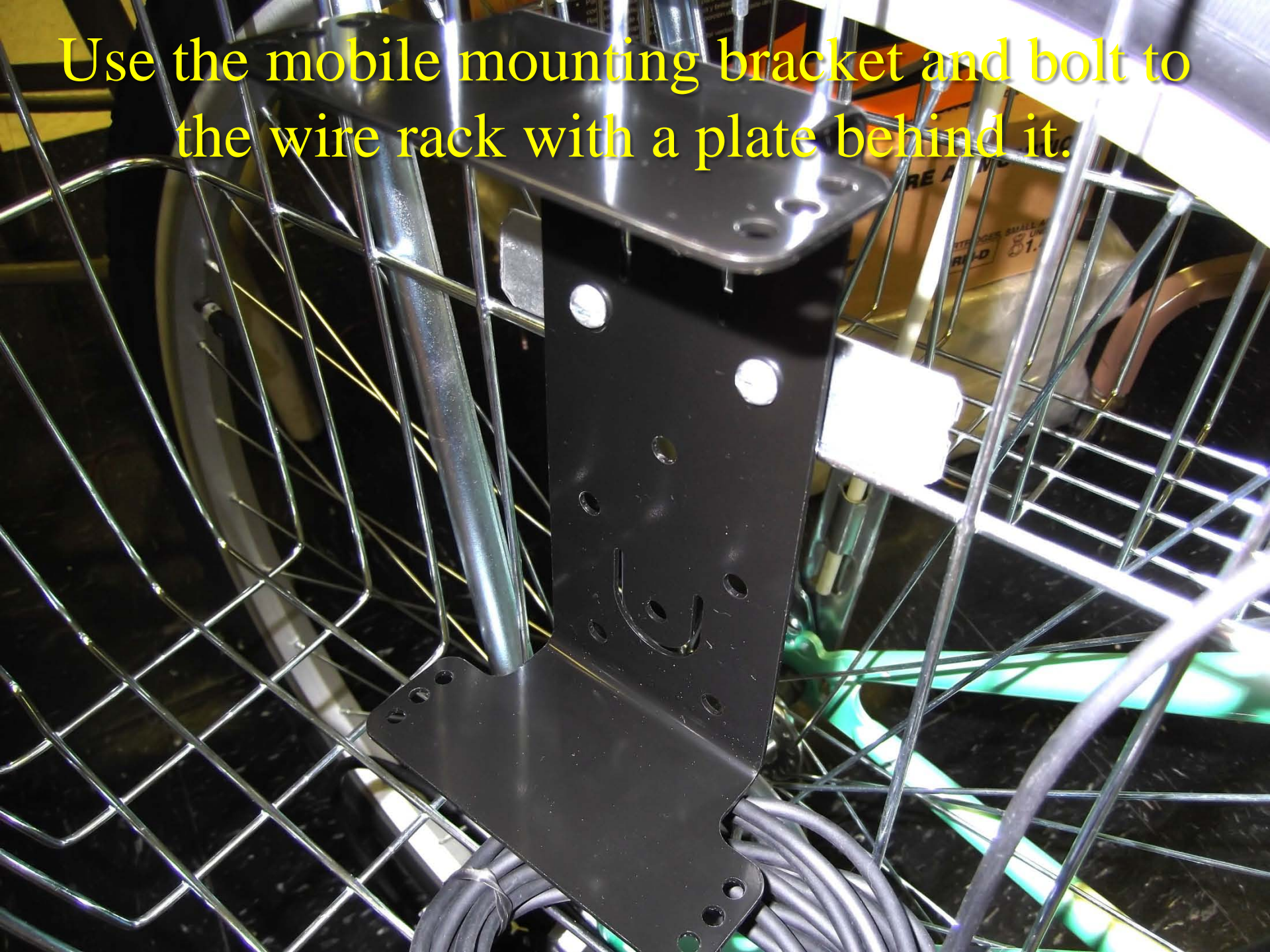
Bolt on antenna mount. . .



Same as used on heavy truck mirror mount



Use the mobile mounting bracket and bolt to the wire rack with a plate behind it.





Wrap mic cable around snap on toroid



Available at Radio Shack



# Mounted radio & SLAB Sealed Lead Acid Battery



Battery shown is a 12 AH size



# SLAB, Sealed Lead Acid Battery 12V; 12 AH; Tab Terminals; UB12120, \$29.17 at Walmart





# Sealed Lead Acid Battery 12V; 8 AH; Tab Terminals; UB1280, \$19.20 at Walmart



Battery shown is a 8 AH size















YAESU

VF0a LSB 12.8V  
7.204.00  
SCN PRI DW

A

B

C



**Needed a speaker – reflector mount used for it**











Sheet metal plate for mag mount & ground





HUNTSVILLE, ALABAMA USA  
Madison County, 35894  
**WA4DXP**

**ALABAMA**  
**WA4DXP**  
AMATEUR RADIO  
SEP 09

SCHWINN





**Testing it  
out at home  
and made  
several 40  
and then 20  
meter  
contacts**





**For a Radio Bike, it seems natural to  
name it THE RADIO FLYER**



**Laminated signs are also on the sides above  
the license plates on either sides.**





**Close up of  
Radio Flyer  
signs and  
license tags  
on both  
sides of  
rack.**





**Full outfit  
with Radio  
Flyer signs  
used at  
Veteran's  
Day Parade  
on Nov. 11,  
2013**



# BICYCLE MOBILE



[www.bmha-hams.org/](http://www.bmha-hams.org/)

is the web  
site for  
more  
information  
on BMHA

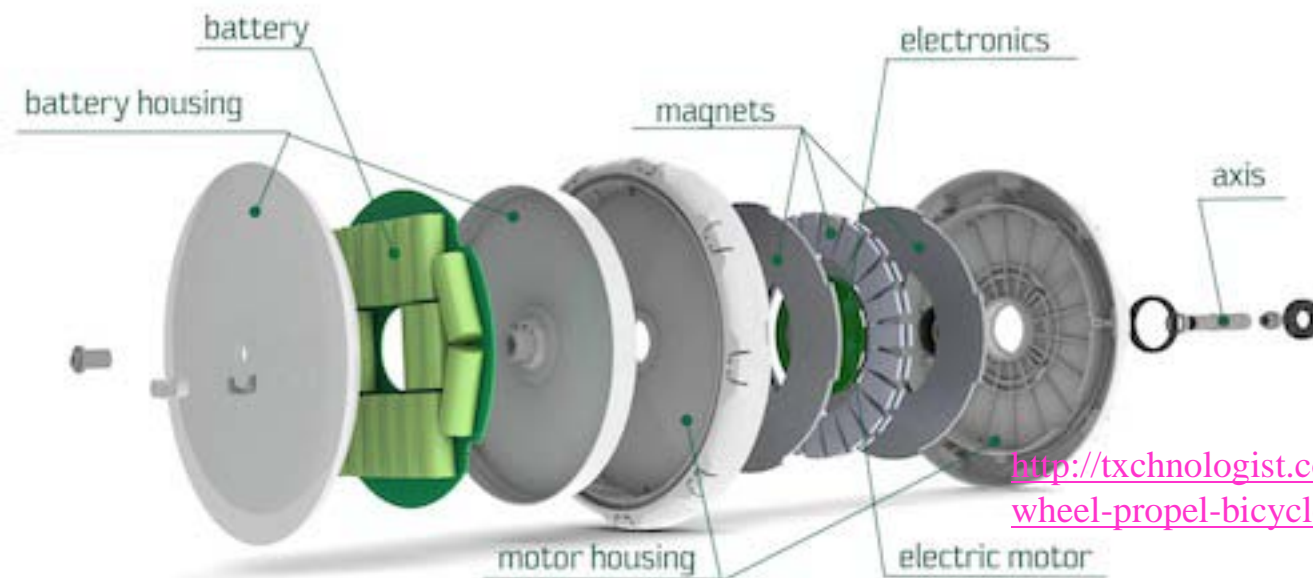
# HAMS OF AMERICA





**What's next?**

**An electric  
wheel for my  
bike. But  
that's  
another story  
for another  
time.**



<http://txchnologist.com/post/64205739732/will-the-smart-wheel-propel-bicycle-commuting-forward>





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- ◆ Huntsville, AL
- ◆ Nov. 22, 2013

For contact information visit:

<http://www.qrz.com/db/WA4DXP>