



- The HT: Handi-Talkie
- · Available under \$100
- Stock rubber-duckie antenna













RUBBER DUCKIE?



 Young Caroline Kennedy (early 1960's) looking at an FBI agent's transceiver antenna

Or

 Senior NASA Scientist Thomas A. Clark naming it after listening to one of Vaughn Meader's comedies about the Kennedy Family



WAYS TO IMPROVE YOUR SIGNAL AND YOUR RECEIVE

1. Microphone technique

& positioning at your QTH



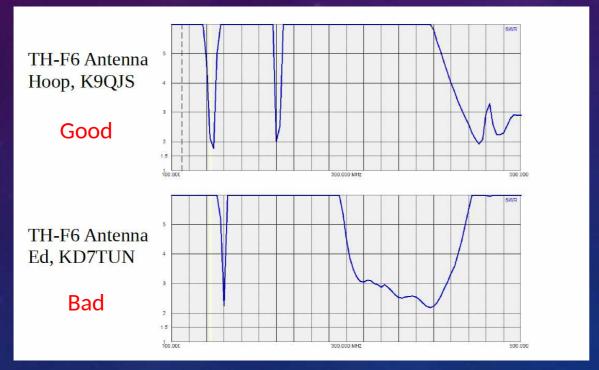
k9qjs@arrl.net

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2. Evaluate bent rubber ducky







3. Get adapters!

for Japanese HTs: Diamond or Signalstuff (BNC female / SMA male)

for Chinese HTs: Amazon or Signalstuff (BNC female / SMA female)

Benefits:

- Reinforcement for the HT SMA connector,
- Quick release for antennas
- Antennas interchangeable across your HTs.







3. (cont.) One more adapter you should have



BNC Male to SO-239 UHF Female jumper cable

Benefits:

- Easily connect your SMA/BNC-adapter-equipped HT to PL-259's on coax cables for external antennas
 - Stress relief on the HT connectors

k9qjs@arrl.net





SmileyAntenna.com Tri-band w/ BNC

- Collapsible & tunable

Signalstuff.com Signal Stick w/ BNC

- Practically unbreakable in fun colors

Benefits:

Longer, improved-performance HT antennas Quick release fittings



TRI BAND

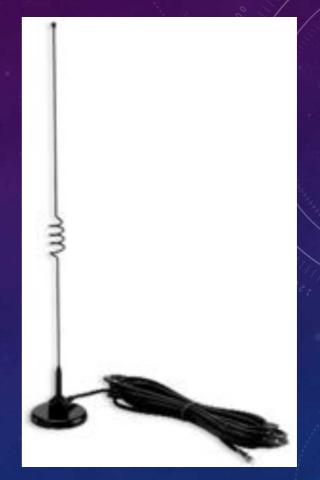


5. External to-the-HT antennas

5.1 Mag-mount on filing cabinet or pizza pan (or vehicle!) w/ cable and PL259 plug









5.2 Ladder-line Slim Jim Antenna or J-pole Such as N9TAX on eBay or Ed Fong J-Pole (Hamradio2.0)

- You will need RG-8X coax cable to run from H. jumper cable to antenna, and maybe a window-pass-through for outside installation



5.3 "Jungle antenna"
Reference KM4ACK
& The Tech Prepper



- Three pieces of wire, Binding post w/ BNC male connector, BNC female to UHF female adapter, and a stick, plus coax cable w/ connectors to length



6. "Tiger-tail" counterpoise

- 19" wire connected at base of antenna or on case screw

- Anecdotal improvements





7. Improve listening on Baofeng HT (HT's sensitive to breaking squelch from RFI on receive)

- Program the frequency using Tone Squelch, to only open squelch when receiving from the target repeater



k9qjs@arrl.net



HT TOPICS ... FOR ANOTHER DAY

- Programming & cable: frequency, offset, tone, use of CHIRP
- VFO mode vs Memory mode
- Vendor offered accessories:
 - Extra batteries
 - Speaker-mic or ear-piece (helpful for on-the-ground AuxComm support)
 - Charging dock, et al

HT's mounted in vehicles

Digital modes: Winlink, FSQ on your HT

k9qjs@arrl.net

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SUMMARY: IMPROVING YOUR SIGNAL AND YOUR RECEIVE

- 1. Microphone technique & positioning
- 2. Evaluate bent rubber duckie
- 3. Get adapters
- 4. After-market HT antennas
- 5. External antennas
- 6. Tiger-tail counterpoise
- 7. Use of "Tone Squelch" on receive

RESOURCES

- Adapters
 - HT Japanese:
 https://www.hamradio.com/detail.cfm?pid=H0-009346

 https://signalstuff.com/product/smam-to-bnc-adapter/
 - HT Chinese:
 https://www.amazon.com/dp/B00CVQK466/?coliid=IHLF22AI9UJGM&colid=1AO9FTN 625TE6&psc=1&ref =list c wl lv ov lig dp it

https://signalstuff.com/product/sma-f-to-bnc-f-adapter/

- Jumper, BNC Male to UHF female https://www.hamradio.com/detail.cfm?pid=H0-006196
- Binding post, BNC male
 https://www.hamradio.com/detail.cfm?pid=H0-016327
- UHF Female to BNC Female <u>https://www.hamradio.com/detail.cfm?pid=H0-011144</u>

RESOURCES

- Slim Jim antenna (or J-pole, close cousin)
 https://www.youtube.com/watch?v=1hG7dva9VIs&t=890s
 https://grapevineamateurradio.com/products/ed-fong-j-pole-antennas-dual-band-220-and-roll-up
- Jungle Antenna https://www.youtube.com/watch?v=K_fG7CVs3Dc
- Tiger-tail
 https://hackaday.com/2014/02/08/improve-your-ht-ham-radio-by-adding-a-counterp_oise-antenna-wire/