
USER GUIDE



SAFARILAND®

M.A.S.T. PURPOSE & OVERVIEW

The Safariland® Modular Antenna System – Tactical (M.A.S.T.) is a tactical communications accessory designed to improve radio communications and provide the end user with significant ergonomic advantages. With the increase in the use of multiband digital radios with long VHF omni-directional antennas, placement of the radio in the front cummerbund becomes problematic. The antenna can extend into the weapons manipulation workspace and get in the way of tactical movement. Even when strapped down, the antenna still radiates in the same space as the armor plate typically worn by tactical operators. Most rifle rated armor plates use advanced ceramics which affects the radiation pattern of the antenna, warping the typical omni-directional radiation pattern toward the plate itself. The M.A.S.T. raises the antenna above the rifle plate and relocates the antenna to the end user's back and out of the way of the user's front work area. The cable conductive elements and the length are chosen to minimize any line loss, which is negligible in the 24" or 42" lengths. The Berry compliant nylon pouch comes with a laser cut MOLLE compatible attachment strap. The M.A.S.T. solves the radio frequency pattern issue around a rifle armor plate and the ergonomic issue of having the radio antenna extended into the end user's workspace (The end user must provide the antenna).

For domestic and federal law enforcement members, we recommend that a second antenna is purchased specifically for use with the M.A.S.T. so it can stay properly mounted and routed on the armor carrier. Whereas the second antenna is used for the radio in typical handheld law enforcement use cases.

IMPORTANT

READ BEFORE USE

**FOLLOW INSTRUCTIONS CAREFULLY.
RETAIN FOR FUTURE REFERENCE.**

MODULAR ANTENNA SYSTEM - TACTICAL (M.A.S.T.) **USER GUIDE**

I.

Attach the MAST pouch to the back panel of the armor carrier. Place it as high and as far to the outside as the MOLLE pattern will allow.



II. UTILIZE THE MOLLE ATTACHMENT PROCEDURES

- 01 Start by locating the strap(s) on the accessory, it should terminate with an arrow shaped piece of laser cut nylon at the end. This is the end you will lead your weave with.



- 02 On the platform you'd like to attach your gear to, slide the strap underneath the first row of MOLLE. Pull it all the way.



- 03 Locate the MOLLE webbing on the back of your accessory. Slide the strap underneath the row closest to the top.



- 04 If your accessory has multiple rows of MOLLE, repeat the process from the beginning for each additional row.



- 05 Once you have your accessory where you want it, push the arrow shaped end of the strap through the small laser cut opening at the bottom of the accessory. This secures the accessory.



II. ROUTE THE RELOCATION CABLE

- 01 Route the antenna relocation cable along the armor carrier from the location of the radio to the bottom of the harness. Utilize cable management features on the armor carrier as much as possible.



- 02 Route the antenna connector of the cable through the nylon loop at the bottom of the MAST harness from back to front.



- 03 Open the harness and route the antenna connector end of the cable from the bottom of the harness to the top inside the two elastic nylon straps until the antenna connector is visible and accessible.



- 04 Connect the antenna connector of the cable to the base of the antenna securely, ensuring the two are not cross threaded or overly tightened. Tools are not recommended for this process



- 05 Once fully threaded into the antenna base, pull the cable back downward through the elastic nylon until the base of the antenna is seated against the black nylon strap. The black nylon strap is used to keep the cable and antenna from sliding out of the harness during vigorous movements.

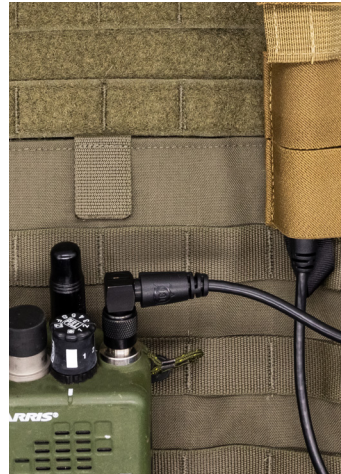


06 Close the 2" Velcro strap around the antenna to secure it from sliding up and out of the elastic straps and then secure the 1" Velcro strap. The 1" Velcro Strap is used to secure the 3' flex whip when being carried in the stowed configuration. To extend the flex whip antenna, simply release the 1" Velcro strap to allow the 3' flex whip to fully extend for increase range.



07 Attach the other end of the cable to the antenna connector of the radio securely, ensuring the two are not cross threaded or overly tightened. Tools are not recommended for this process.

Some MAST versions come with a quick disconnect adaptor which should be installed in the same fashion. The end of the cable should then be attached to the quick disconnect adapter.





13386 INTERNATIONAL PKWY., JACKSONVILLE, FL 32218

(800) 347-1200 (USA ONLY) OR (904) 741-5400

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Part # 1356743
R.112822