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APPLICATION NOTE

INSTRUCTIONS

USER GUIDES

MP1LXMAX

Deluxe Maximum

Large Tripod

Portable Antenna Package

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Thank you for your order!

We appreciate your business and hope you enjoy your new Super Antenna equipment.

Review

If you are happy with your purchase, would you consider leaving a product review online?

Support for your Super Antenna product

There are plenty of application notes and manuals available on the Super Antenna website to help you get the most from your new equipment.

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Select your desired manual or application note in the Download section.
It is free and easy.

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We strive to ensure that your equipment is in perfect condition but sometimes mistakes can happen or products can be damaged in shipping. If there is something wrong with the equipment you ordered, please contact us by direct email:

support@newsuperantenna.com

We will try to immediately take care of your problem. Please include your Order ID in your email and explain exactly what your issue or problem is. Generally, problems with missing or broken equipment, or shipping damage, can be resolved within 5 business days. We stand behind our products and strive to make every customer happy with their purchase.

Accessories and Options

Accessorize your new Super Antenna equipment. Get the full range of SuperPods, SuperMounts, SuperWhips, Go Bags, SuperWire Radial Sets, Extension Rods, Low Profile Tripods, Super Coils, Adapters, and more.

APPLICATION NOTES

INSTRUCTIONS

USER GUIDES

- *Your friends at Super Antenna*



Top Of The Line Deluxe Maximum Portable HF-VHF Antenna System

Go Anywhere...
Get the power of
a Super Antenna.

MP1LXMAX

Portable Antenna System Features and Specifications

- **Frequency Range:**
80 metres through 2 metres Amateur Bands
HF 3.5 MHz to 148 MHz continuous coverage,
plus MARS-CAP-Marine-shortwave-CB-etc
- **Simultaneous Operation on VHF 2 metre band**
144-148 MHz and an HF band or 6 metres
- **Good SWR: 1.5:1 or better,**
Manual adjustment, with no tuner needed
- **Power Rating:**
500W SSB, 300W CW / DIGITAL
- **Lightweight for travel carrying and packing**
- **For indoor or outside field use**
- **Antenna Fittings: Standard 3/8"-24 threads**
- **Assembly: Easy set up in ten minutes by**
one person, no tools needed
- **Antenna packs down to a single Go Bag**
13" x 9" x 3.5" (33 x 23 x 9 cm)
- **Tripod packs down to a single Go Bag**
25" (63cm) long
- **Fully extends up to 12 feet (3.6m) high for**
maximum efficiency operation
- **Ground mount for lightweight and quick**
set up in the yard, garden, forest, or beach
- **Standard SO-239 fittings for PL-259 connector**
- **Ruggedized whip for travel and backpacking**
- **Color: Black Stealth & Metallic**

Everything fits into
the 2 Go Bags.





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FEATURES & SPECS

MP1C Antenna GB1 Go Bag SW1 SuperWhip UM3 SuperMount TM4 SuperPod Features



GB1 Go Bag

- Case Size: 13" x 9" x 3.5" (33 x 23 x 9 cm)
- Velcro Panel for Insignia & Flag Patches
- MOLLE - PALS Compatible Attachment System Front and Back for Interface with Military Packs, Gear Bags, HTs, EmComm Pouches, or securing a SuperWhip
- Cable Pocket for MR Series Radial Sets, Coax, and Connectors
- 2 Coil Pockets for MP1 & DP Series SuperSliders and MC Series SuperCoil Options
- Pocket for Mounts and Tools
- Strong Webbing Handles
- 2 Extension Rod Pockets for Extra Length or Telescopic Whips
- 2 Full Length Stealth Hidden Velcro Pockets for FG1 Frequency Guide, Mics, Keys, Manuals, Equipment, EmComm Forms, or Accessories
- 2 D-Rings for Attachments or Straps



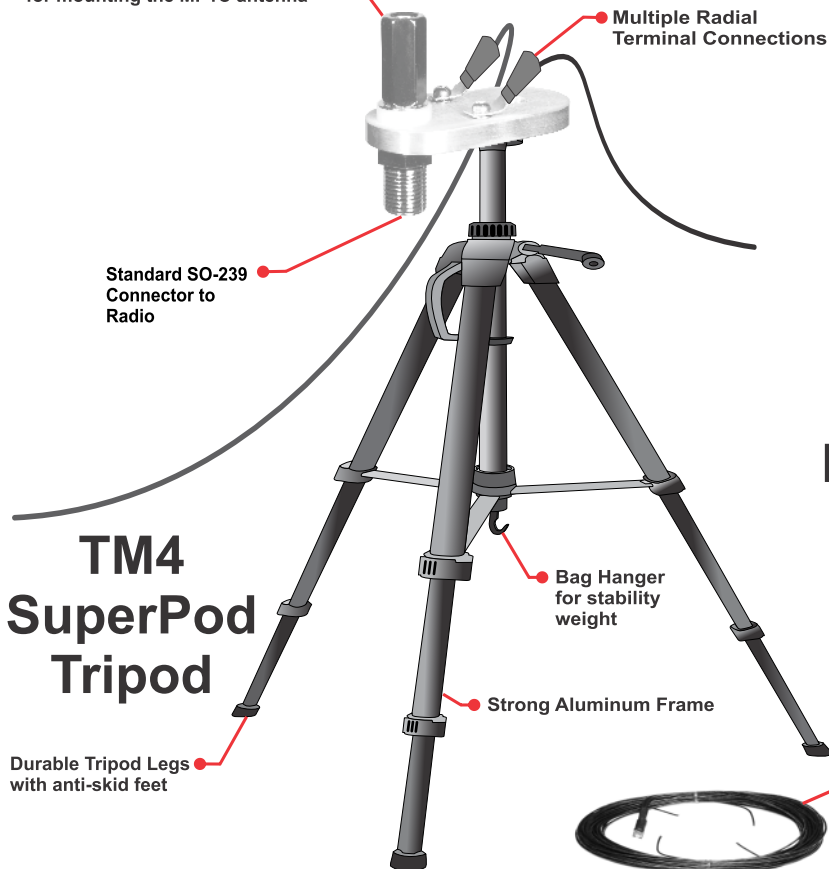
SW1 SuperWhip

- Ruggedized Flexible Whip for HF Bands
- Rolls up to fit on your Go Bag MOLLE
- Titanium Strong
- Super Flexible



UM3 SuperMount

- Standard 3/8"-24 female Threads for mounting the MP1C antenna
- Multiple Radial Terminal Connections



TM4 SuperPod Tripod

- Durable Tripod Legs with anti-skid feet

- Bag Hanger for stability weight

- Strong Aluminum Frame

MP1C Antenna

- Telescopic Whip with Standard 3/8"-24
- New Rubberized Grip for Easy Tuning
- High Q SuperCoil for Maximum Efficiency
- Durable Polymer SuperCoil Form
- New Self Locking SuperSlider
- Nickel Beryllium Weatherproof Connections
- Two Extension Rods for Height Flexibility
- All Modular Parts Standard 3/8"-24 Fittings



FG1 SWR Ruler

calibrated for good SWR

TH1

- Thumb screw only for vehicle mobile use



Radial Sets

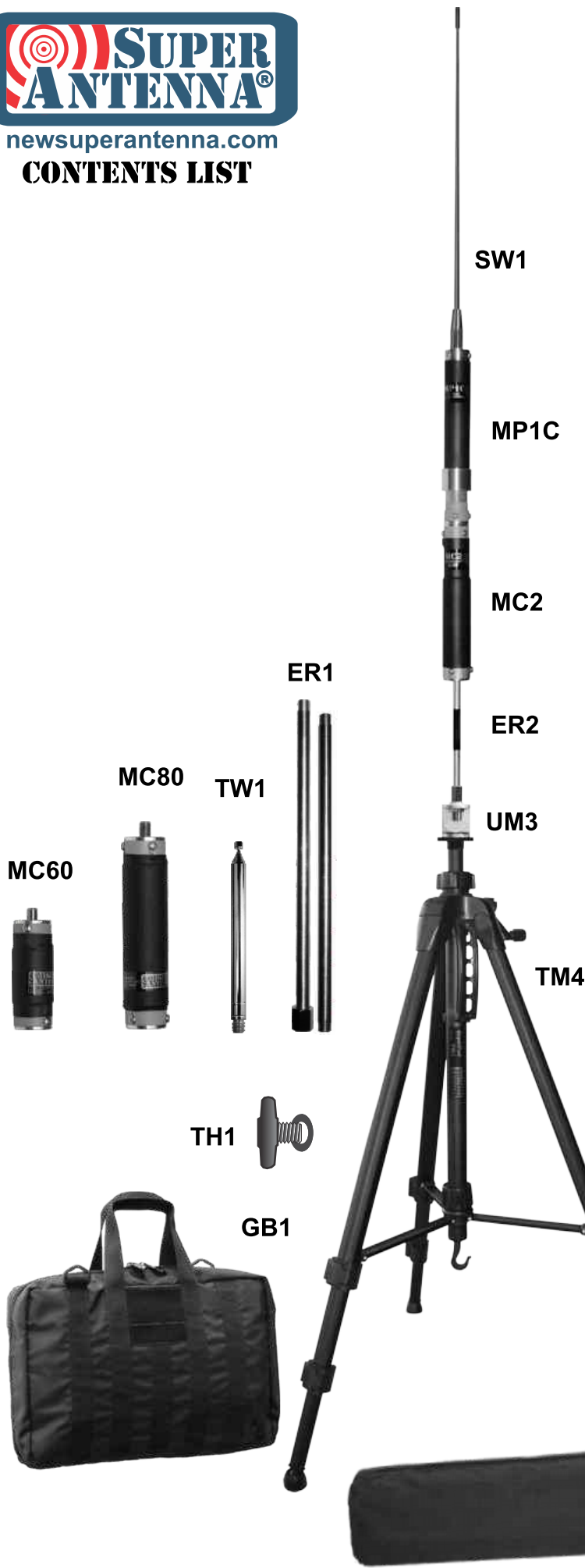
- Super performance on all bands





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CONTENTS LIST



MP1LXMAX SuperWhip Portable Antenna System Contents of Package

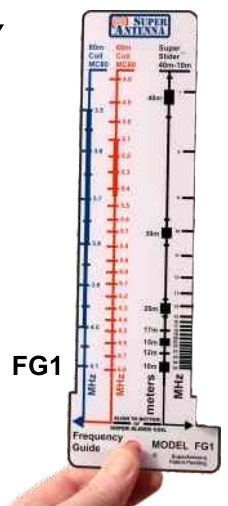
- **MP1C Antenna SuperSlider**
Adjustable Coil for Manual Tuning to Any HF Frequency
- **FG1 Frequency Guide SWR Ruler**
- **2 ER1 Extension Rods with 1 Coupling Nut**
- **TW1 Telescopic Whip**
- **TH1 Thumb Screw** for mobile operation
- **SW1 SuperWhip**
Super Flexible Ruggedized Titanium bends in a circle
- **TM4 SuperPod Large Tripod**
Convenient Set Up Anywhere and Collapsible for Travel
- **UM3 Mount for TM4 Tripod**
Coaxial Antenna Fitting Mount for Tripod or SuperSpike
- **GB4 Go Bag for SuperPod Tripod**
Black stealth nylon case for carrying your TM4 SuperPod
- **SuperSpike Ground Mounting Spike**
For fast low profile setup on the ground without the tripod
- **MC80 SuperCoil for 80m-75m Band**
Coil adapter for the 3.5 MHz ~ 4.8 MHz frequency range
- **MC60 SuperCoil for 60m 5 MHz Band**
Coil adapter for the 4.9 MHz ~ 6.8 MHz frequency range
- **GB1 Super Go Bag**
Black stealth nylon case for Antenna Modules
- **MC2 SuperPlexer**
2 metre band adapter for dual band operation with HF
- **ER2 Extension Rod**
- **MR2B Radial Set** (2m Band for other types of mounts)
- **MR2R Radial Set** (2m Band for other types of mounts)
- **MR2Y Radial Set for 2 m Band**
(use with MC2 SuperPlexer on UM3 Mount and TM4 Tripod)
- **MR4010 Radial Set for 40-10m Bands**
- **MR642 Radial Set for 6m-4m Bands**
- **MR8075 Radial Set for 80m-75m Bands**
- **MR6060 Radial Set for 60m Band**

Super
Spike

MR2B MR2R MR2Y

MR4010 MR642

MR8075 MR6060



GB4



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INSTRUCTIONS USER GUIDE



TM4 SuperPod Large Tripod Set Up Guide

- Unpack the contents of the **TM4 SuperPod Tripod¹** package and lay all items out horizontally on a clean flat surface. (See *Contents list on your box label*).
- You will need the following:

TM4 SuperPod Tripod¹

UM3 SuperMount³

- Flip open the six (6) tripod **Flip Lock Leg Clamps^B**.
- Extend all sections of the three (3) **Tripod Legs^L**.
- Flip closed the six (6) tripod **Flip Lock Leg Clamps^B**.
- **Note: Only hand-tighten the fittings. DO NOT USE pliers, wrench, or spanner to tighten any fitting of the tripod, mount, coaxial connector, or antenna.**
- Move the **TM4 SuperPod Tripod¹** to the desired antenna position location, and while placing it on the surface, loosen the **Strut Lock Knob^D** slightly.
- Spread out the **Tripod Legs^L** fully, then push down gently on the **Strut Lock Knob^D** and rotate it slightly clockwise to keep the **Legs^L** in the spread position.
- Place your **UM3 SuperMount³** onto the **Top Mounting Screw^T** of the **Mast Head^H** as shown in this drawing (*top left*).
- With the **SO-239^S** coaxial connector facing downward, mate the **Top Mounting Screw^T** with the matching threaded hole in the flat metal plate of the **SuperMount**. **Be sure to select the proper threaded hole.**
- Screw the **SuperMount** in a clockwise rotating motion onto the **Top Mounting Screw^T** until the **SuperMount** is seated on the **Mast Head^H**.
- Slightly rotate the **Mast Lock Knob^K** counter-clockwise to unlock the **Mast^M**. Raise the **Mast^M** about 6 inches (15cm) by rotating the **Mast Crank^C** clockwise. Gently tighten the **Mast Lock^K** to secure it.
- For added stability, you may attach a stabilizing weight (*not included*) or bag to the **Stabilizer Weight Hook^W** or guy the tripod with nylon or polyester non-metallic insulated cord.
- **Your TM4 SuperPod is now set up and ready for you to attach your antenna, coax cable, and radial sets.**

Antenna System Set Up

See MP1C and UM3 setup on the following pages for details of antenna setup.

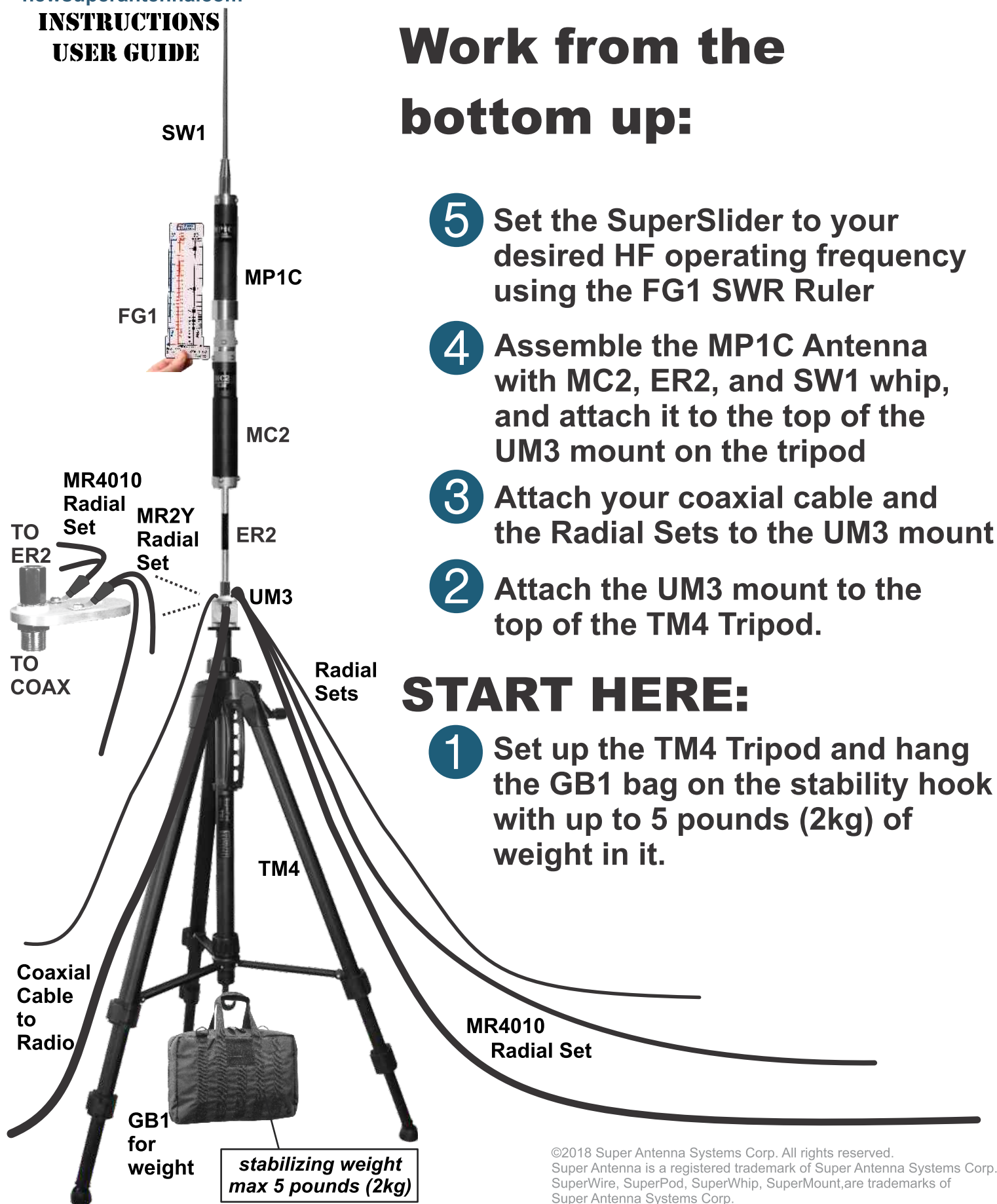


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INSTRUCTIONS USER GUIDE

MP1LXMAX Quick Set Up Guide for 40m ~ 10 metres and 2 metres *simultaneously*

Work from the bottom up:

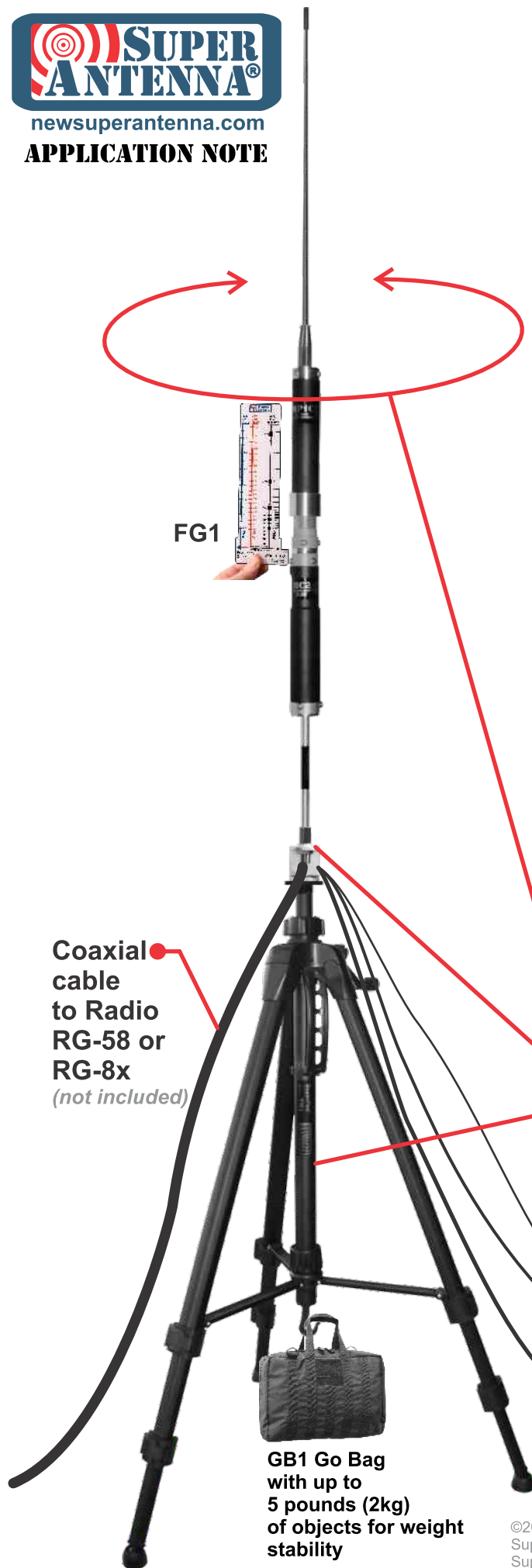


- 5 Set the SuperSlider to your desired HF operating frequency using the FG1 SWR Ruler
- 4 Assemble the MP1C Antenna with MC2, ER2, and SW1 whip, and attach it to the top of the UM3 mount on the tripod
- 3 Attach your coaxial cable and the Radial Sets to the UM3 mount
- 2 Attach the UM3 mount to the top of the TM4 Tripod.

START HERE:

- 1 Set up the TM4 Tripod and hang the GB1 bag on the stability hook with up to 5 pounds (2kg) of weight in it.

MP1LXMAX Antenna Optimum Set Up For Tripod



- The MP1 series Super Antenna system is designed to operate as a portable, base, manpack, or mobile antenna. In its optimum portable configuration, the antenna is mounted vertically on a TM4 SuperPod tripod or UM3 Ground Mount with SuperSpike.
- It is recommended that the TM4 Tripod with UM3 Mount be set up first in the desired antenna location. Extend the tripod legs to align it vertically.
- Radial Set wires should be attached to the mount using the provided push-on connectors. If there isn't enough space to stretch out all the radial wires, they can be loosely zig-zagged or laid out in large loops on the surface or floor. The radial wires can be taped or tied for strain relief; stress on the wires should be avoided.
- For best performance and calibration using the FG1 Frequency Guide SWR Ruler, the SuperSlider, and the whip above the slider, should be kept in the clear, at least 10 feet (3m) from other objects to the side and above. If other objects are near the antenna, or if the antenna is utilized indoors, it may affect the performance and calibration of the SWR Ruler. Usually, the proximity of nearby objects causes a change in resonance that requires the antenna SuperSlider to be set at a slightly higher MHz frequency on the FG1 than the desired frequency for best SWR. Rain or dew can also affect the resonance of the antenna or ground system; it can be compensated for by slightly changing the SuperSlider position for a good SWR.
- For best receive performance, the antenna should be located away from computers, TVs, lamps, lights, power lines, and other RF-noisy equipment.
- The drawing example shows the recommended configuration when the antenna system is set up outdoors.

Coaxial
cable
to Radio
RG-58 or
RG-8x
(not included)

• **Antenna whip above the SuperSlider:**
Keep in the clear all around,
at least 10 feet (3m) away from buildings
and objects above or toward the sides.

• **UM3 Mount: Attach Radial Sets and Coaxial
Cable before attaching antenna**

• **TM4 SuperPod Tripod**

**Radial Set wires: droop down loosely from
mount to lay upon surface or floor.
For better SWR and performance outdoors:
elevate radials or tie them out to insulated
objects, or rest them upon vegetation.**

• **Separate each of the wire ends by at
least 5 feet (1.5m) between them.**

**GB1 Go Bag
with up to
5 pounds (2kg)
of objects for weight
stability**



INSTRUCTIONS USER GUIDE

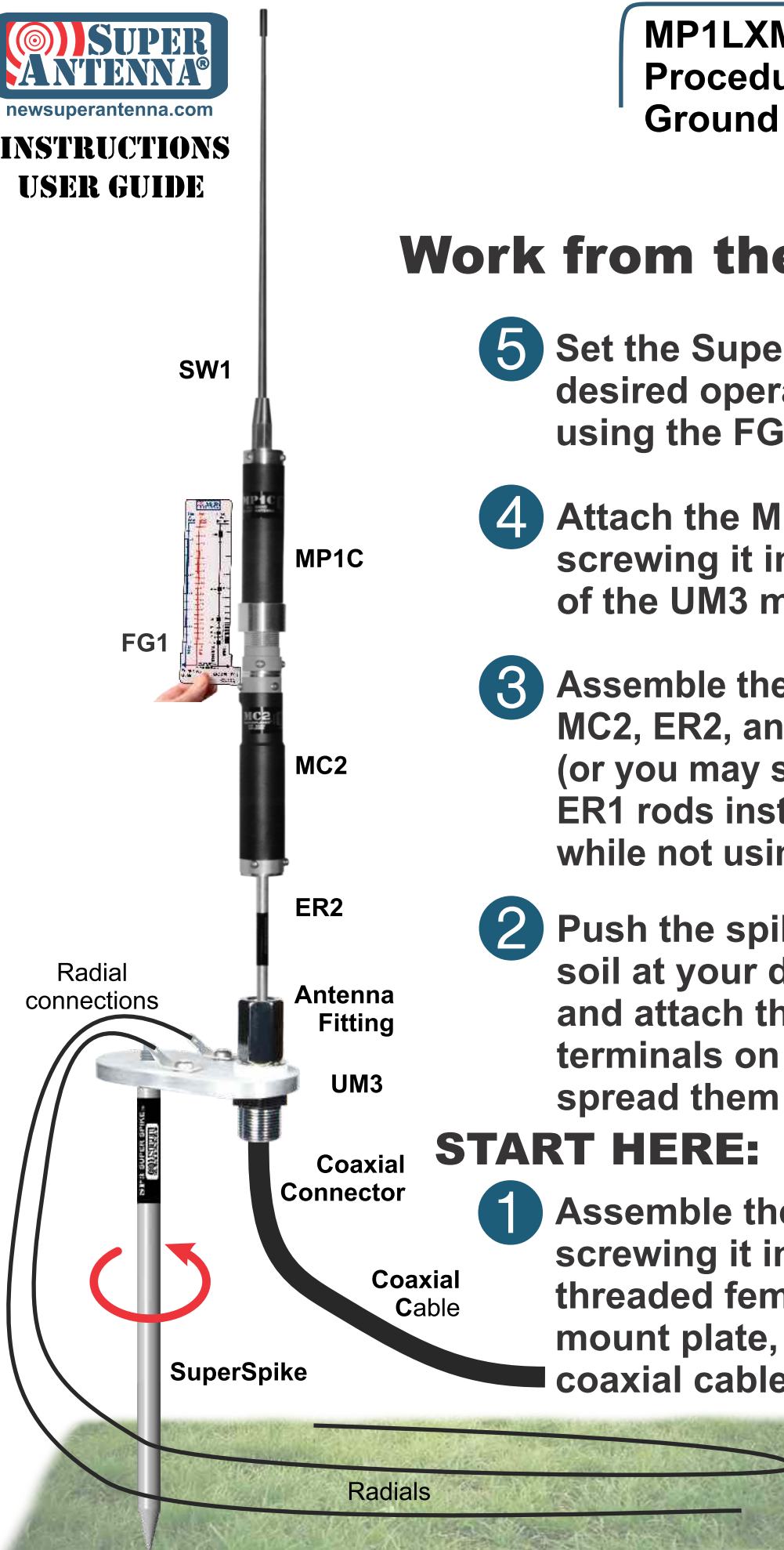
MP1LXMAX Set Up Procedure for SuperSpike Ground Mount System

Work from the bottom up:

- 5** Set the SuperSlider to your desired operating frequency using the FG1 SWR Ruler
- 4** Attach the MP1C Antenna by screwing it into the top fitting of the UM3 mount
- 3** Assemble the MP1C Antenna with MC2, ER2, and SW1 SuperWhip (or you may substitute the two ER1 rods instead of the MC2 + ER2 while not using the 2 metre band)
- 2** Push the spike into the ground soil at your desired antenna site and attach the Radial Sets to the terminals on the UM3 mount and spread them out on the ground

START HERE:

- 1** Assemble the SuperSpike by screwing it into the bottom of the threaded female hole in the UM3 mount plate, then attach your coaxial cable to the fitting.





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INSTRUCTIONS USER GUIDE

SW1 SuperWhip®
(or TW1 TelescopicWhip)



FG1
Frequency Guide



40 metres
30 metres
20 metres
17 metres
15 metres
12 metres
11 metres
10 metres

SuperSlider
push up or down
to adjust for good SWR
on the HF band frequency

MC2
SuperPlexer
2 meter Diplexer
(no tuning needed
for 144~148 MHz)

ER2
Extension Rod
(part of MC2)

Mount

Configuring the MP1LXMAX for the HF Bands and 2 metres

**This is the standard set up for using
one of the following HF Bands:**
(simultaneous with 2 metres)

- When using the MC2 SuperPlexer, the MP1 series antenna becomes a dual-band antenna, which covers the VHF 2-meter band simultaneously, along with an HF band, without the need to re-configure it separately for HF and VHF use.
- To set up your Antenna system, select the designated modular components shown, and configure it according to the band charts below.
- For HF bands, hold the FG1 Frequency Guide as shown, and adjust the frequency by pushing the SuperSlider up or down, to the calibrated position according to the matching color scale. (see FG1 instructions)
- Do not use the optional MC80 SuperCoil or MC60 SuperCoil for HF operation except when operating on the 80 meter, 75 meter, or 60 meter bands.
- For the 6 meter band, remove the Whip or SuperWhip from the top of the SuperSlider entirely. Adjust the SuperSlider to approximately 2 or 3 turns of the coil showing.
- Re-adjust and fine tune the SuperSlider slightly using your radio's SWR meter for the desired 50MHz operating frequency. Note: The FG1 Frequency Guide is not calibrated for the 6 meter band.

Note: VHF may require finely detailed radial adjustments. Mobile applications may require special grounding or radial techniques to achieve good SWR for the 2 meter band. see instruction sheet "MR2Y Radial Set for 2 metre Band with MC2 SuperPlexer"

7 MHz to 30 MHz HF
simultaneous with
144 to 148 MHz VHF

Insert the MC80 coil only
while you are using 80 m.
Insert the MC60 coil only
while you are using 60 m.
Do Not insert both MC80
and MC60 at the same time.

Note: For HF + VHF operation, use
only the one ER2 Extension Rod.
Do not use ER1 Extension Rods,
set them aside.



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INSTRUCTIONS USER GUIDE

SW1 SuperWhip Ⓑ
or
TW1 TelescopicWhip

SuperSlider Ⓕ
push up or down
to adjust for
good SWR on
80m ~75m band
desired frequency

MC80 Ⓜ
SuperCoil
for 80m ~ 75m
Band

MC2 Ⓜ
SuperPlexer
2 meter Diplexer
(no tuning needed
for 144~148 MHz)

ER2 Ⓡ
Extension Rod
(part of MC2)

Mount Ⓝ

Configuring the MP1LXMAX for the 80 metre ~ 75 metre Band and 2 metres

**This is the standard set up for using
the 80 metres ~ 75 metres HF Band.
(simultaneous with 2 metres)**

- When using the MC2 SuperPlexer, the MP1 series antenna becomes a dual-band antenna, which covers the VHF 2-meter band simultaneously, along with the 80m~75m HF band, without the need to re-configure it separately for HF and VHF use.
- To set up your Antenna system, select the designated modular components shown, and configure it according to the diagram to left.
- For HF bands, hold the FG1 Frequency Guide as shown, and adjust the frequency by pushing the SuperSlider up or down, to the calibrated position according to the matching blue color scale. (see FG1 instructions)
- Do not insert the MC60 SuperCoil while using the MC80 SuperCoil. Either/or, but not both.
- Note: VHF may require finely detailed radial adjustments. Mobile applications may require special grounding or radial techniques to achieve good SWR for the 2 meter band. see instruction sheet "MR2Y Radial Set for 2 metre Band with MC2 SuperPlexer"

FG1
Frequency Guide
use **Blue Color scale**

**3.5 MHz to 4 MHz HF
simultaneous with
144 to 148 MHz VHF**

Insert the MC80 coil only
while you are using 80 m.
Insert the MC60 coil only
while you are using 60 m.
Do Not insert both MC80
and MC60 at the same time.

Note: For HF + VHF operation, use
only the one ER2 Extension Rod.
Do not use ER1 Extension Rods,
set them aside.



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INSTRUCTIONS USER GUIDE

Configuring the MP1LXMAX for the 6 metre Band and 2 metres

**This is the standard set up for using
the 6 metre (50 MHz) VHF Band.**
(simultaneous with 2 metres)



- When using the MC2 SuperPlexer, the MP1 series antenna becomes a dual-band antenna, which covers the 2-meter band simultaneously, along with the 6 metre band, without the need to re-configure it separately for 6m and 2m use.
- To set up your Antenna system, select the designated modular components shown, and configure it according to the diagram to left.
- Do not use the MC80 SuperCoil or MC60 SuperCoil while operating on 6 metres.
- For the 6 meter band, remove the Telescopic Whip and SuperWhip from the top of the SuperSlider entirely.
- Adjust the SuperSlider to approximately 2 or 3 turns of the coil showing.
- Re-adjust and fine tune the SuperSlider slightly using your radio's SWR meter for the desired 50MHz operating frequency.
- Note: The FG1 Frequency Guide is not calibrated for the 6 meter band.
- Note: VHF may require finely detailed radial adjustments. Mobile applications may require special grounding or radial techniques to achieve good SWR for the 2 meter band. see instruction sheet "MR2Y Radial Set for 2 metre Band with MC2 SuperPlexer"

**50 MHz VHF
simultaneous with
144 to 148 MHz VHF**

Do not insert the MC80 coil
or 60m Coil while using
the 6m band, 50 MHz.





































Note: For 6m + 2m operation, use
only the one ER2 Extension Rod.
Do not use ER1 Extension Rods,
set them aside.



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APPLICATION NOTE

MP1 Series Antenna Options Ham Band Chart for Coils Radial Sets and Adapters HAM BANDS

| SUPERCOILS AND SUPERPLEXER ADAPTER use with the MP1C | | Bands covered by MP1C by itself | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 | 4 | 6 | 10 | 12 | 15 | 17 | 20 | 30 | 40 | 60 | 75 | 80 |
| | | m | m | m | m | m | m | m | m | m | m | m | m | m |
| PICK ONE SUPERCOIL FOR DESIRED BAND | | 144 | 70 | 50 | 28 | 24 | 21 | 18 | 14 | 10 | 7 | 5 | 3.8 | 3.5 |
| | | MHz | MHz | MHz | MHz | MHz | MHz | MHz | MHz | MHz | MHz | MHz | MHz | MHz |
| | | | | | | | | | | | | | | |
| MC80 SuperCoil |  | | | | | | | | | | | |  |  |
| MC60 SuperCoil |  | | | | | | | | | | |  | | |
| MC2 SuperPlexer ** ER2 Extension Rod |  |  | | | | | | | | | | | | |
| RADIAL SETS | | 2 | 4 | 6 | 10 | 12 | 15 | 17 | 20 | 30 | 40 | 60 | 75 | 80 |
| PICK ONE OF THESE RECOMMENDED RADIAL SETS AS NEEDED TO USE ON THE DESIRED BAND | MR8075*** Radial Set |  | | | | | | | | | | |  |  |
| | MR8060*** SuperWire Radial Set |  | | | | | | | | | |  |  |  |
| | MR6060*** SuperWire Radial Set |  | | | | | | | | | |  | | |
| | MR4010*** SuperWire Radial Set |  | | | |  |  |  |  |  |  |  | | |
| | MR1710*** SuperWire Radial Set |  | | | |  |  |  |  | | | | | |
| | MR642*** SuperWire Radial Set |  | |  |  | | | | | | | | | |
| | MR2* SuperWire Radial Sets |    |  | | | | | | | | | | | |

*Only one MR2 Radial Set is needed for the 2 metre band while using the MC2 SuperPlexer. See MC2 Instruction Sheet for details.

** The MC2 SuperPlexer may remain in the system when using any other band. It must be in the system when using the 2 metre band.

*** Only one Radial Set is needed for the desired band.



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INSTRUCTIONS

USER GUIDE

MR2Y Radial Set for 2 metre Band with MC2 SuperPlexer

The MC2 SuperPlexer with MR2Y Radial Set enables your Super Antenna to work on the 2 metre band simultaneously with an HF Band. The MC2 can remain inserted in the antenna system while using HF. The MC2 is factory set to 144-148 MHz with no user adjustment needed for 2 metre band operation.

MP1C
SuperSlider
Coil

MC2
SuperPlexer
2 meter adapter
(label end up)

Note: Use only the
ER2 Extension Rod
that came with your
MC2 SuperPlexer

ER2
Extension Rod
required

Position a radial wire
of the MR2Y Radial Set
up across top of the mount
near the antenna fitting
(may be secured with tape)

MR4010 Radial Set
and other Radial Sets
for HF frequencies

Use the
MR2Y Radial Set
YELLOW color code
with the UM3 Mount
for TM4 Tripod and
Ground Mount

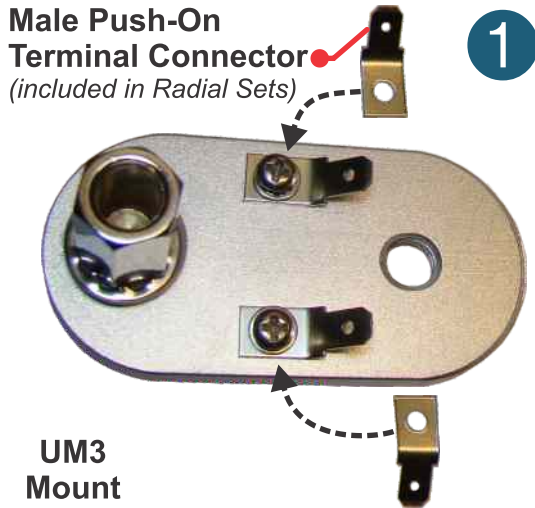
Critical placement of
the MR2Y Radial Set
for the 2 metre VHF Band
finely detailed adjustment.

Raise or lower
upper mast crank
of tripod for best
2 meter band SWR

TM4 SuperPod
Large Portable
Antenna Tripod

APPLICATION NOTE

Male Push-On Terminal Connector (included in Radial Sets)



UM3
Mount

Phillips Screwdriver (not included)



UM3
Mount

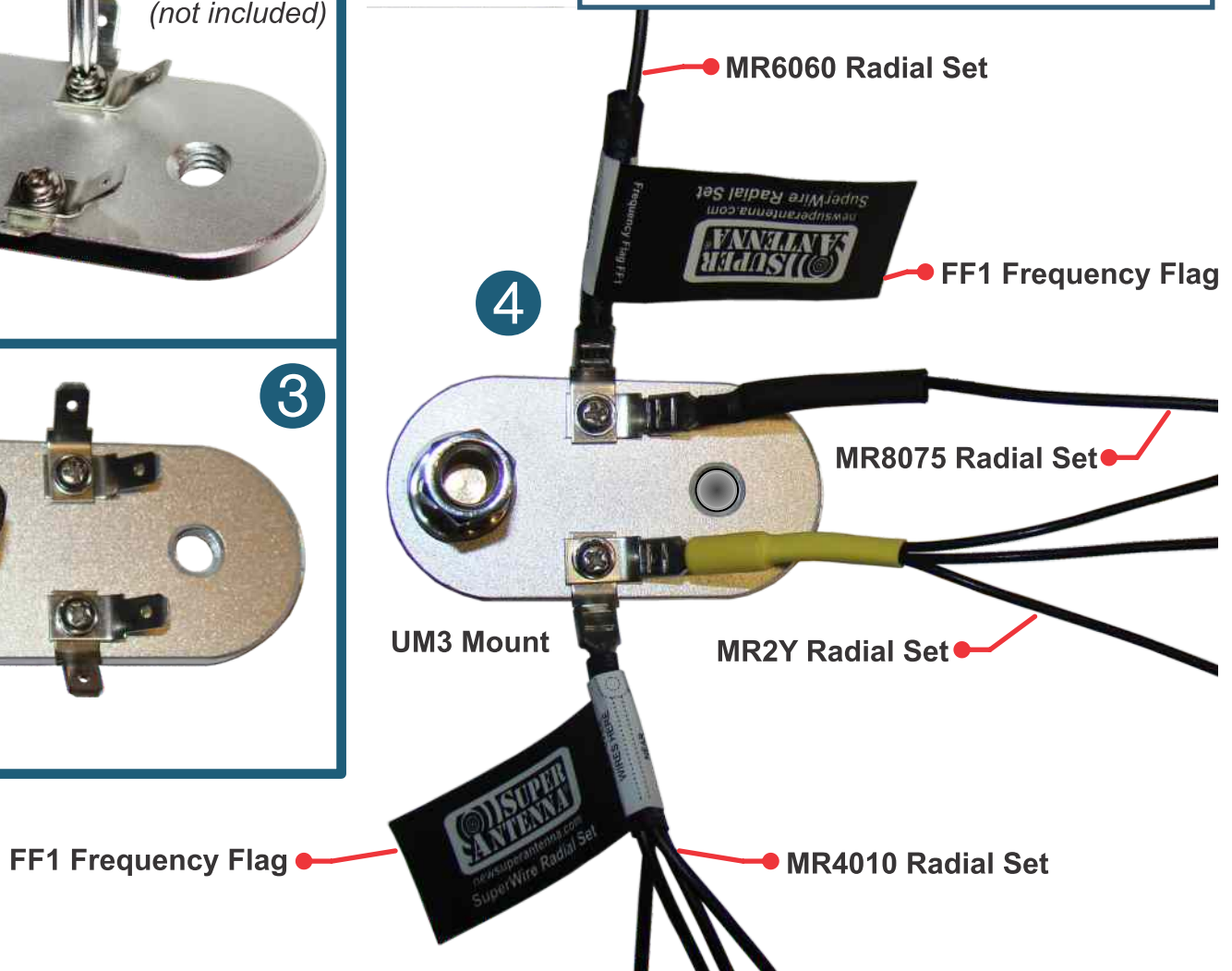


UM3
Mount

Add Radial Terminal Connectors to UM3 Mount for Additional Radial Sets

- Normally, it is only necessary to connect the Radial Set for the desired band that is actively in use.
- 2 terminal connectors are provided on the UM3 Mount for connecting 2 Radial Sets simultaneously.
- It is OK, and can be beneficial, to connect more than 2 Radial Sets at the same time.
- An additional spare terminal connector is provided inside each Radial Set package for this purpose.
- A phillips screwdriver (*not provided*) is needed to add the spare terminals to the mount.
- Please refer to the illustrations and details below.

- 1 Unscrew the phillips screw(s) from the UM3 Mount plate, and stack the spare terminal connectors onto the same screw as the existing terminal connector.
- 2 Screw the stack of terminal connectors onto the mount, and tighten the screw(s).
- 3 The addition of terminal connectors to the mount is now complete. Attach the UM3 Mount to the TM4 SuperPod or the SuperSpike ground spike.
- 4 Attach the Radial Sets to the terminal connectors, and fan the radials out as desired.






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INSTRUCTIONS USER GUIDE

SW1 SuperWhip  **B**
or
TW1 TelescopicWhip

SuperSlider  **F**
push up or down
to adjust for
good SWR on
60 metre band
desired frequency

MC60  **V**
SuperCoil
for 60metre
Band

MC2  **V**
SuperPlexer
2 meter Diplexer
(no tuning needed
for 144~148 MHz)

ER2  **R**
Extension Rod
(part of MC2)

Mount  **N**

Configuring the MP1LXMAX for the 60 metre Band and 2 metres

**This is the standard set up for using
the 60 metre (5 MHz) HF Band.**
(simultaneous with 2 metres)

- When using the MC2 SuperPlexer, the MP1 series antenna becomes a dual-band antenna, which covers the VHF 2-meter band simultaneously, along with the 60 metre HF band, without the need to re-configure it separately for HF and VHF use.
- To set up your Antenna system, select the designated modular components shown, and configure it according to the diagram to left.
- For HF bands, hold the FG1 Frequency Guide as shown, and adjust the frequency by pushing the SuperSlider up or down, to the calibrated position according to the matching red color scale. (see FG1 instructions)
- Do not insert the MC80 SuperCoil while using the MC60 SuperCoil. Either/or, but not both.
- Note: VHF may require finely detailed radial adjustments. Mobile applications may require special grounding or radial techniques to achieve good SWR for the 2 meter band. see instruction sheet "MR2Y Radial Set for 2 metre Band with MC2 SuperPlexer"

FG1
Frequency Guide
use Red Color scale

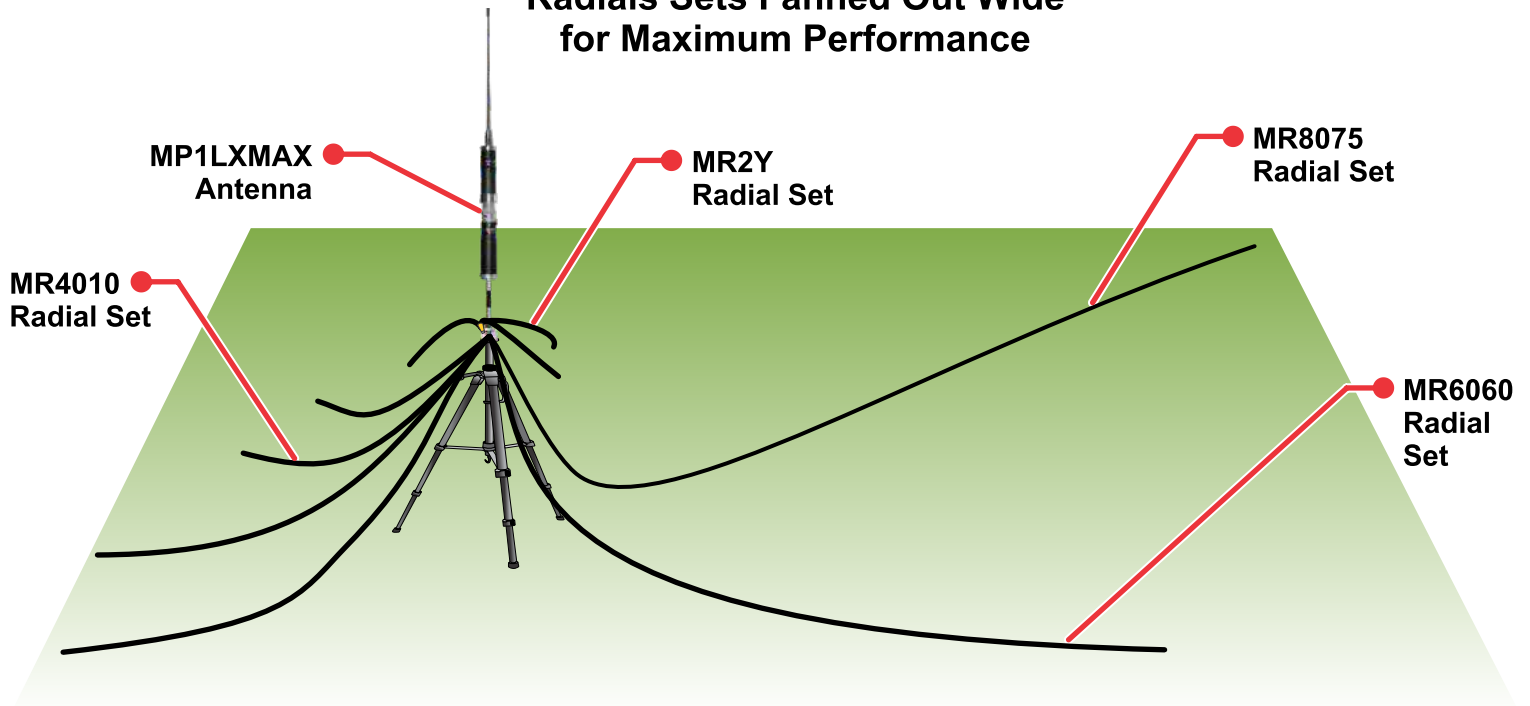
5 MHz HF
simultaneous with
144 to 148 MHz VHF

Insert the MC60 coil only
while you are using 60 m.
Insert the MC80 coil only
while you are using 80 m.
Do Not insert both MC80
and MC60 at the same time.

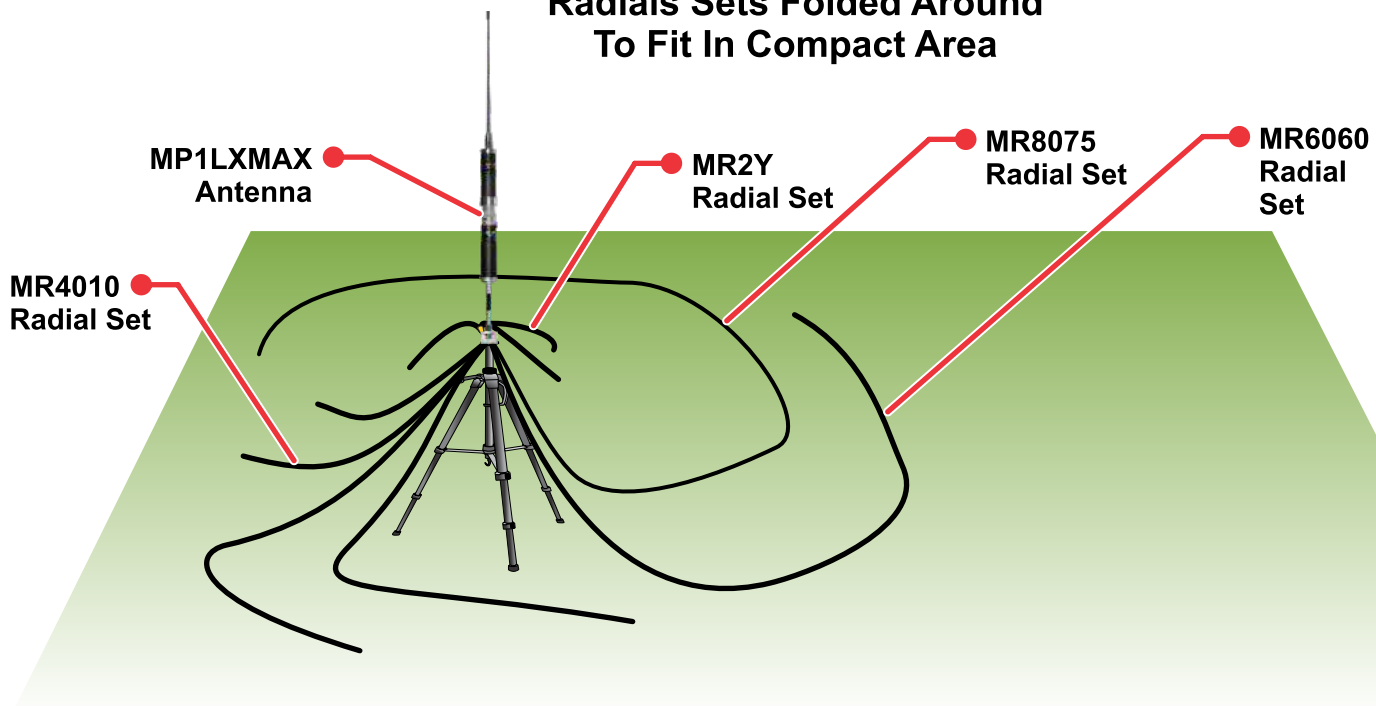
Note: For HF + VHF operation, use
only the one ER2 Extension Rod.
Do not use ER1 Extension Rods,
set them aside.

Deployment of Radial Sets for High Performance

Radials Sets Fanned Out Wide for Maximum Performance



Radials Sets Folded Around To Fit In Compact Area





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INSTRUCTIONS USER GUIDE



To remove: Cut zip ties or tape with a nail clipper.

CAUTION: When unpacking use care due to extreme high energy kinetic forces in the whip. DO NOT bend in less than 11 inch (28cm) diameter circle. Use eye protection when deploying. Some small natural curvature is normal after bent storage and decreases during use.

Temperature range -20°C to 60°C (-4°F to 140°F)



Thread the SW1 SuperWhip into the outside edges of the GB1 Go Bag's MOLLE webbing straps to hold it in place for travel packing.

SW1 SuperWhip Set Up and Travel Packing

The SW1 SuperWhip is used on the HF bands in place of the normal TW1 Telescopic Whip.

Do Not Bend
Less Than
11 inches
diameter

Attach SW1 SuperWhip to top of MP1 Antenna SuperSlider

To pack down, remove the SW1 SuperWhip from top of MP1 Antenna SuperSlider and bend it into a 12 inch diameter circle.





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APPLICATION NOTE

MP1 Antenna Backpack Set Up for Pedestrian Mobile Operation

Insert a single provided ER1 Extension Rod
Through the top hydration tube slot or zipper
opening at the top of the backpack.

Secure the rod to the top handle of the
backpack. This is the spot where the most
force will be encountered while in motion, so
make this attachment as secure and strong as
possible.

Secure the rod with cinch straps, cord, cable
ties, or duck tape. 2 Extension Rods are
supplied in the package.

But, for most ruggedized applications,
a single ER1 Extension Rod is optimum, and
sufficient for HF operation.

Place the UM3 SuperMount inside the
backpack, and screw the bottom of the
ER1 Extension Rod into the mount
fitting. With a screwdriver or tool, loosen
the swivel mount angle screws and
adjust the angle to provide a good
footing for the mount plate inside the
pack.

Soft items such as clothing may be
placed around the mount with heavier
items surrounding it, to hold the mount
in place in the pack.

Typical backpack
suggestion.

For packs with side
MOLLE-PALS straps

Tie the top of the rod to the
point where the shoulder strap cinch
strap meets the top of the
pack.

The rod and mount may
be slotted through the
side straps.

Attach coaxial cable to
mount and radio.

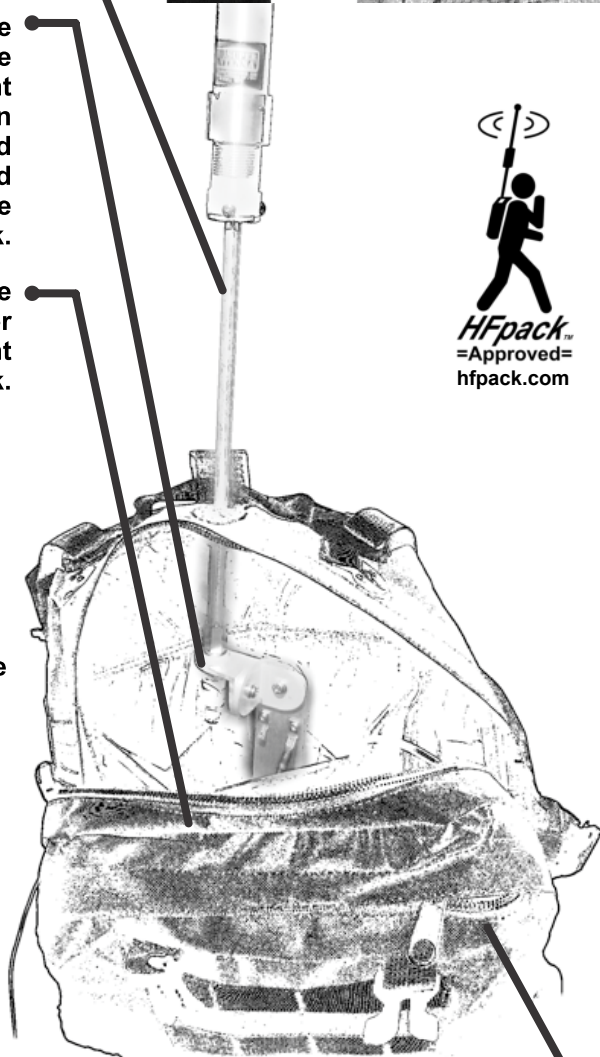
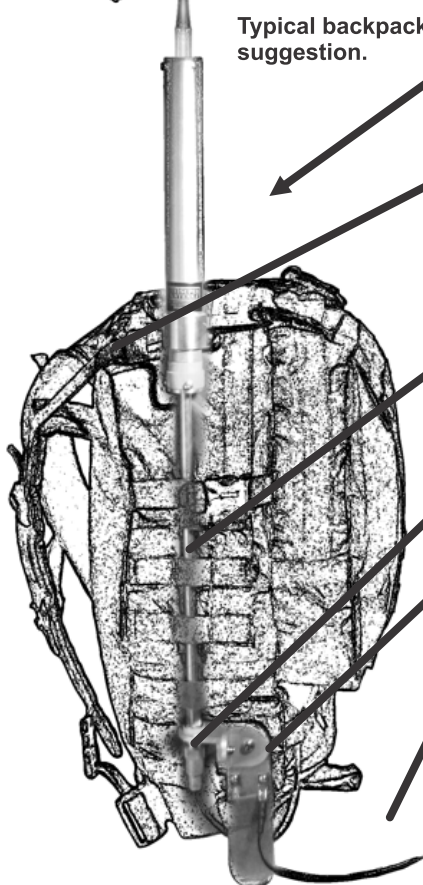
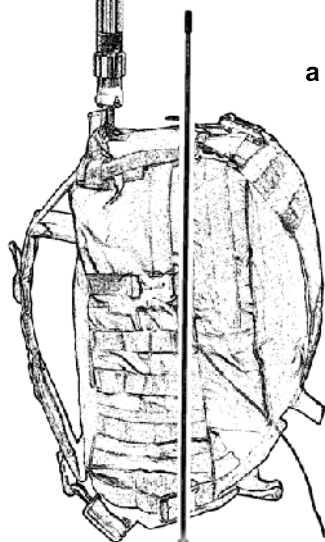
Attach drag wire
counterpoise to the
mount connection.

Draw out a single wire of
the counterpoise and let
it dangle. Use the
shortest wire for higher
frequencies.

Roll the remaining counterpoise wires
up, and stow them in a pocket of the
pack.



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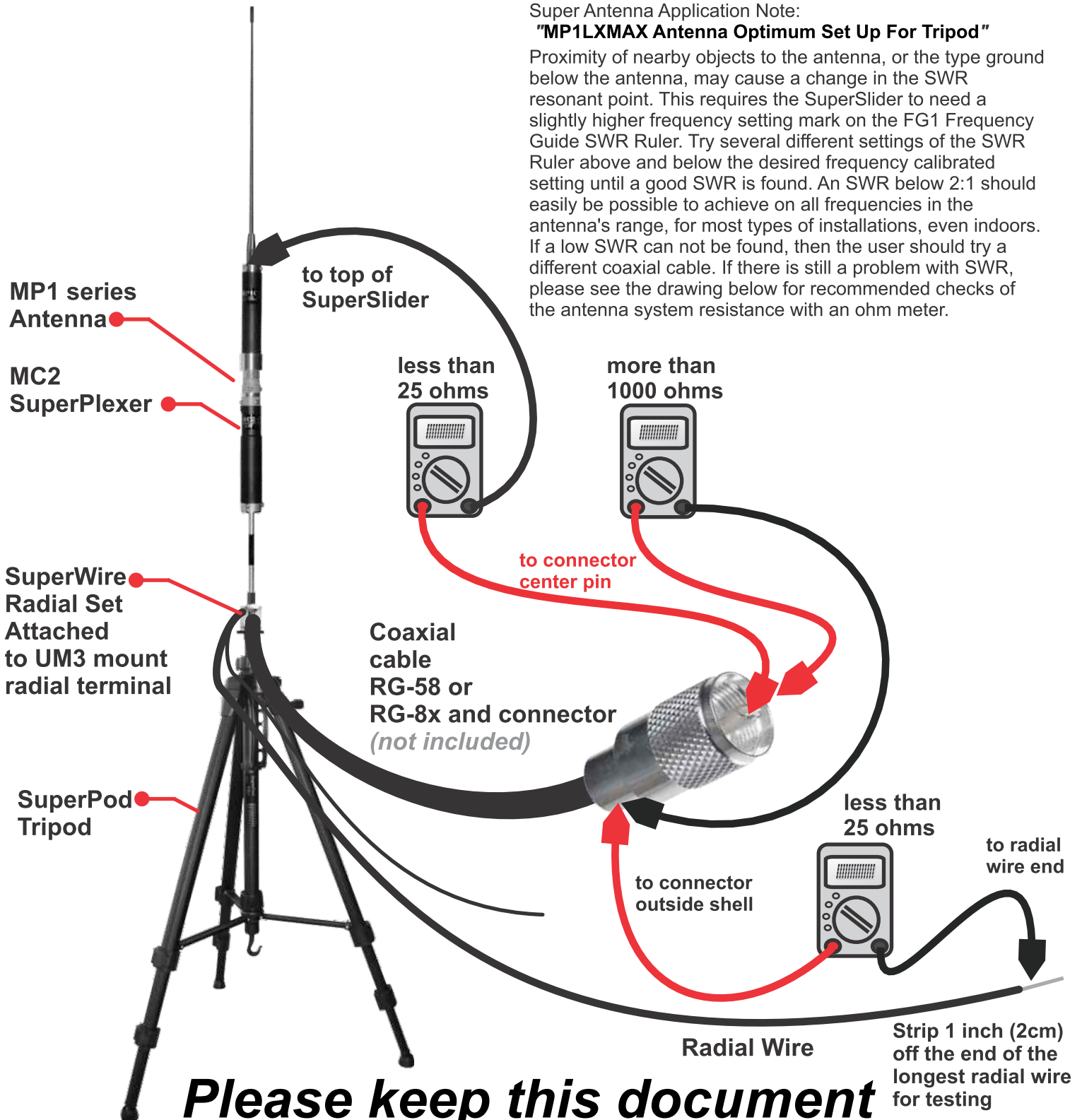


MP1LXMAX Antenna System Troubleshooting Basic Electrical Testing

The MP1 series Super Antenna system is designed to operate as a portable, base, manpack, or mobile antenna. For a recommended high performance set up, please see the Super Antenna Application Note:

"MP1LXMAX Antenna Optimum Set Up For Tripod"

Proximity of nearby objects to the antenna, or the type ground below the antenna, may cause a change in the SWR resonant point. This requires the SuperSlider to need a slightly higher frequency setting mark on the FG1 Frequency Guide SWR Ruler. Try several different settings of the SWR Ruler above and below the desired frequency calibrated setting until a good SWR is found. An SWR below 2:1 should easily be possible to achieve on all frequencies in the antenna's range, for most types of installations, even indoors. If a low SWR can not be found, then the user should try a different coaxial cable. If there is still a problem with SWR, please see the drawing below for recommended checks of the antenna system resistance with an ohm meter.



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