



Flexi-Whip Antenna Installation Considerations Trunk Lip Mount, Field Tunable, with Flexible Mast, 136MHz-1GHz

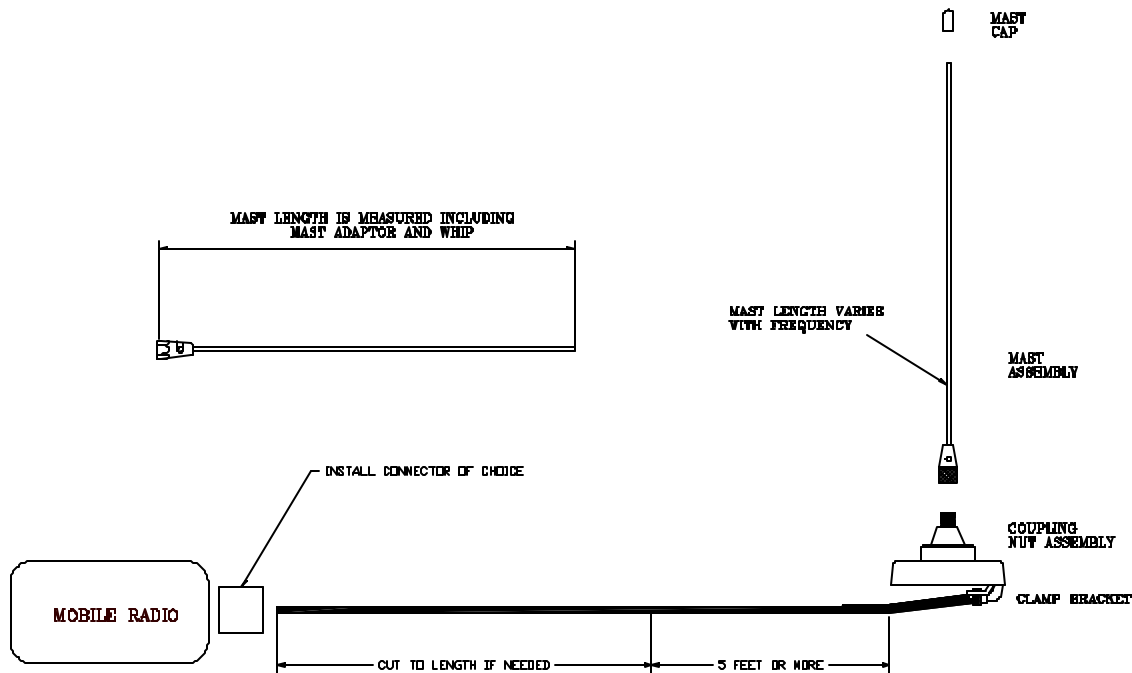
MODEL NUMBER: TKLP-FT-NITI

VERIFY:

1. **Parts List:** The package includes an antenna with cable attached, cap and a connector for the two-way radio. Use only the components supplied with the antenna system.
2. **Frequency and Bandwidth:** The frequency is determined by mast length. The bandwidth varies depending on the frequency. Please refer to cutting chart included.

INSTALLATION:

1. **Placement:** Select a desired location for the antenna; ideally it should be mounted in the center of the trunk closest to the rear window. However, if the antenna comes into contact with the window when raising the trunk lid, you may move it to the side away from the am/fm radio antenna. *Keep in mind that some vehicles may have composite trunk lids that will not provide a proper ground.*
2. **How to install:** Tilt mounting base and hook the clamp bracket on trunk lip. Avoid pinching cable. Tighten setscrews for contact to grounding surface. Assemble the remainder of the antenna as shown below.



3. **Run Cable:** Route coaxial cable through raised trunk lid. *Be careful not to tear the cable sheath when pulling it through sharp body panels. Should a cut appear in the cable's sheath, cover it with several layers of a high quality electrical tape.*
4. **Electromagnetic interference:** Do not coil feedline cable. Wind the cable upon itself or cut it rather than coiling it. Do not tape or secure feedline to data or vehicle cables during installation.



5. **Cable Cutting:** If preferred, cut the feedline cable to the length required to reach the transmitter leaving a minimum of at least 5 feet (see above Trunk Lip Mount Antenna diagram).
6. **Install Connectors:** Refer to Cable Stripping Dimensions diagram.
7. **Mast Cap:** If mast had to be cut to frequency in the field, STI-CO recommends using epoxy to secure the mast cap. Note: If the antenna has been cut to frequency in the factory the cap will allready be epoxied.

TESTING:

Installation testing if desired, must take place at the transmitter side of the feedline. Make sure all the doors, hood, and trunk are closed while performing tests.

1. **Reflected Power:** When measuring reflected power using a wattmeter, you can expect up to a maximum of 11%. If results are greater than 11%, recheck for proper grounding.
2. **SWR:** A measurement of SWR (**S**tanding **W**ave **R**atio) should yield better than 2:1. If greater than 2:1, recheck for proper grounding.
3. **Continuity:** A test of continuity between the center pin and ground for this antenna will show as an open. This will ensure that the cable connectors and cables have the proper continuity.



TKLP-FT-NITI

CTR. FREQUENCY (MHz)	BANDWIDTH (MHz) VSWR <2:1	LOW FREQUENCY (MHz)	HIGH FREQUENCY (MHz)	MAST LENGTH (INCHES)*
136	18	127.0	145.0	19.8
140	21	129.5	150.5	19.2
145	22	134.0	156.0	18.2
150	28	136.0	164.0	17.9
155	24	143.0	167.0	17.2
160	22	149.0	171.0	16.7
165	30	150.0	180.0	16.3
170	29	155.5	184.5	15.6
175	24	163.0	187.0	15.0
180	32	164.0	196.0	14.6
185	33	168.5	201.5	14.3
190	34	173.0	207.0	13.6
195	29	180.5	209.5	13.4
200	34	183.0	217.0	13.1
220	45	197.5	242.5	11.9
240	67	206.5	273.5	10.8
260	70	225.0	295.0	10.0
280	71	244.5	315.5	9.2
300	75	262.5	337.5	8.9
350	94	303.0	397.0	7.6
400	92	354.0	446.0	6.4
450	95	402.5	497.5	5.6
500	97	451.5	548.5	4.6
600	202	499.0	701.0	3.8
700	170	615.0	785.0	3.5
800	151	724.5	875.5	2.8
900	112	844.0	956.0	2.4
1GHz	132	934.0	1066.0	2.0

*Cut masts with threaded adaptor attached.

Note: You may want to save excess mast material for possible future use.



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