

Building an EZ-Protective Case for a POTA, Telescopic Antenna

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Version 1.0



Rationale

- 16-foot telescopic antenna carried to/from POTA sites better protected if in its own carrying “case”
 - Antenna Part Number: MFJ 1979, Telescopic Whip, 10 Section
 - Source: DX Engineering, Still available as of 9/28/2024
- Simply assembling a carrying case from common PVC materials provides a cheap, but effective, case
- A completed case prototype is shown below.
 - Weight as shown = 12 oz.
 - Weight with antenna inserted = 1 lbs. 14 oz.



Figure 1. Carry Case Using Common PVC Pipe Materials

Bill-of-Materials

- Materials list using Lowe's part numbers
- URL Links on Next page

Description	Lowe's P/N	Qty	Price (\$)
PVC Slip Cap, 3/4"	23896	1	0.82
PVC, pipe section, Schedule 40, 3/4" x 5 ft.	23972	1	5.35
PVC Coupling SXS, 3/4"	23850	1	0.54
PVC Adapter, Male, 1"	23858	1	1.16
PVC Cap FPT, 1"	23887	1	2.54
Paint of choice			
		TOTAL	10.41



Details on Next Page

URL Links to Lowe's Part Numbers

<https://www.lowes.com/pd/Charlotte-Pipe-3-4-in-dia-x-480-Psi-Schedule-40-White-PVC-Cap/5005862601>



**Lowe's Item
#23896**

<https://www.lowes.com/pd/Charlotte-Pipe-3-4-in-dia-x-5-ft-L-480-PSI-PVC-Pipe/3133087>



**Lowe's Item
#23972**

<https://www.lowes.com/pd/Charlotte-Pipe-3-4-IN-SCH40-COUPLING/5005863163>



**Lowe's Item
#23850**

<https://www.lowes.com/pd/Charlotte-Pipe-1-IN-SCH40-MALE-ADAPTER/5012479857>



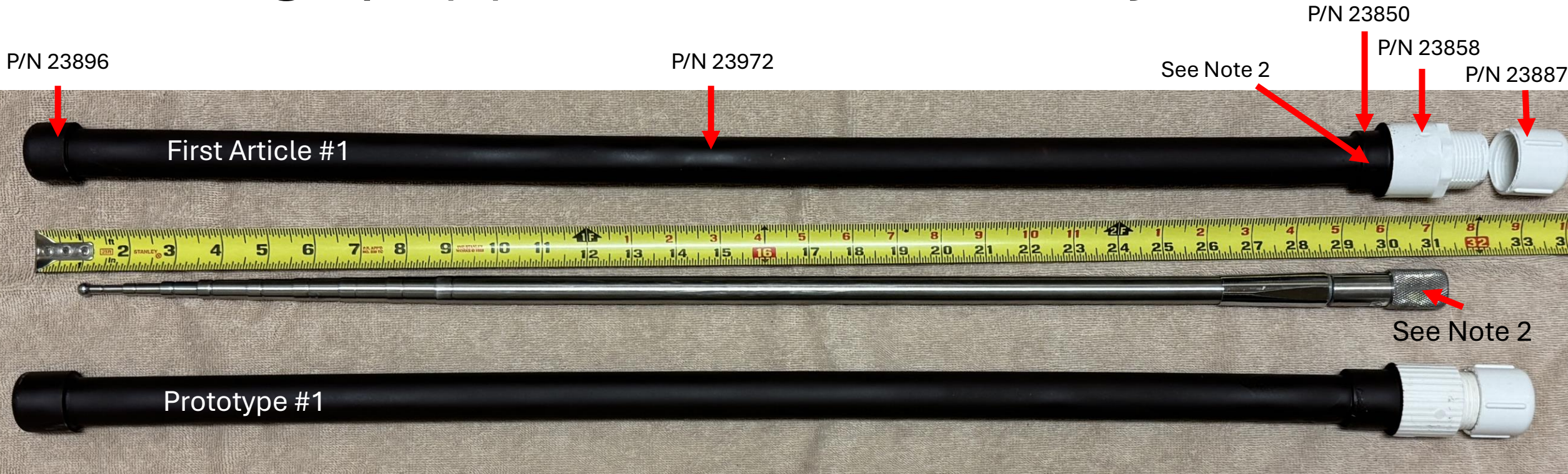
**Lowe's Item
#23858**

<https://www.lowes.com/pd/Charlotte-Pipe-1-IN-SCH40-CAP/5012475915>



**Lowe's Item
#23887**

Photograph(s) of the Final Assembly



Note 1: This is a Hustler Mobile Mast Quick Disconnect Coupler. The PVC parts selection allows for this to be mounted inside the PVC fittings. Hustler QD-2 available DX Engineering (not cheap).

Note 2: Drill a very small diameter (1/16") hole through the side to relieve interior pressure buildup due to temperature variations.