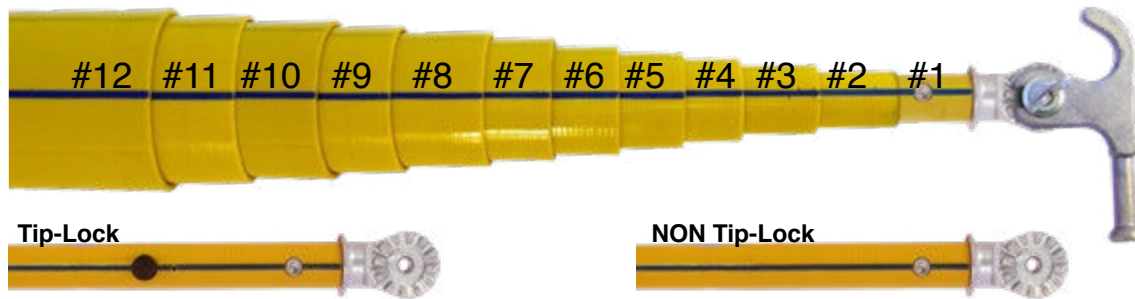


BLUE STRIPE® Hot Stick Repair Guide

STANDARD GROUND OPERABLE TELESCOPIC



Item#	USTS-055	USTS-050	USTS-045	USTS-040	USTS-035	USTS-030	USTS-025	USTS-020	USTS-016				
Button Kit	USTS-0XX-BUTTON-KIT (includes Spring, Button, and Spring Caps for every section for an entire stick)												
Section#	#12	#11	#10	#9	#8	#7	#6	#5	#4	#3	#2	#1	
Button													
Spring													
Spring Caps												N/A	N/A
Drive Pins (Roll Pins ¹)													
Button Kit (Spring, Spring Caps, Button, Drive Pins or Roll Pins ¹)		P-00505	P-00156	P-00155	P-00154	P-00153	P-00152	P-00151	P-00150	P-00149	P-00148	P-00147 ¹	P-00157 ¹ TIPLOCK
Plug													
Plug Assembly (Plug, Spring, Button, Spring Caps, Drive Pins or Roll Pins ¹)		P-00506	P-00137	P-00136	P-00135	P-00134	P-00133	P-00132	P-00131	P-00130	P-00129	P-00128 ¹	P-00127 ¹ TIPLOCK
Inside Fiberglass Section ⁴ (EM/MM see Page 2)													
	C-01424	C-00700	C-00690	C-00680	C-00670	C-00660	C-00650	C-00640	C-00630	C-00620	P-00801 ² NON-TIPLOCK	P-00800 ² TIPLOCK	
Outside Fiberglass Section ^{3 4} (EM/MM see Page 2)													
	P-00810	P-00809	P-00808	P-00807	P-00806	P-00805	P-00804	P-00803	P-00802				
Screws for End Caps										B-00105	P-00045	P-00687	
End Cap ³ (includes Screws)											B-01825 USTS HOT STICK BLANK REPLACEMENT LABEL		
	P-00503	P-00166	P-00165	P-00164	P-00163	P-00162	P-00161	P-00160	P-00159				
Screws & Washers for Boots													
Rubber Boot													
			P-00230	P-00229	P-00228	P-00227	P-00226	P-00225	P-00224				
¹ Section #1 uses Roll Pins													
² Section #1 includes a New Spline End and fasteners													
³ Outside Sections include a New End Cap, fasteners, and Hot Stick Label													
⁴ Refer to Page 2 for Measuring fiberglass sections (EM / MM). All other components are shared.													

¹ Section #1 uses Roll Pins

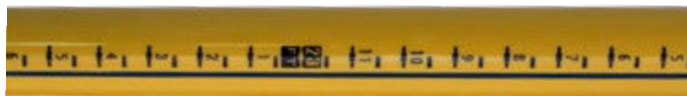
² Section #1 includes a New Spline End and fasteners

³ Outside Sections include a New End Cap, fasteners, and Hot Stick Label

⁴ Refer to Page 2 for Measuring fiberglass sections (EM / MM). All other components are shared.

STANDARD FIBERGLASS SECTIONS - MEASURING

NOTE: Measuring Stick Sections are unique for each size stick!



EM - English Measuring

SECTION #	USTS-016-EM	USTS-020-EM	USTS-025-EM	USTS-030-EM	USTS-035-EM	USTS-040-EM	USTS-045-EM	USTS-050-EM
	16'	20'	25'	30'	35'	40'	45'	50'
#1 TIPLOCK*	P-00800-016-EM	P-00800-020-EM	P-00800-025-EM	P-00800-030-EM	P-00800-035-EM	P-00800-040-EM	P-00800-045-EM	P-00800-050-EM
#1 NON TIPLOCK*	P-00801-016-EM	P-00801-020-EM	P-00801-025-EM	P-00801-030-EM	P-00801-035-EM	P-00801-040-EM	P-00801-045-EM	P-00801-050-EM
#2	C-00620-016-EM	C-00620-020-EM	C-00620-025-EM	C-00620-030-EM	C-00620-035-EM	C-00620-040-EM	C-00620-045-EM	C-00620-050-EM
#3	C-00630-016-EM	C-00630-020-EM	C-00630-025-EM	C-00630-030-EM	C-00630-035-EM	C-00630-040-EM	C-00630-045-EM	C-00630-050-EM
#4 INSIDE		C-00640-020-EM	C-00640-025-EM	C-00640-030-EM	C-00640-035-EM	C-00640-040-EM	C-00640-045-EM	C-00640-050-EM
#4 OUTSIDE	P-00802							
#5 INSIDE			C-00650-025-EM	C-00650-030-EM	C-00650-035-EM	C-00650-040-EM	C-00650-045-EM	C-00650-050-EM
#5 OUTSIDE		P-00803						
#6 INSIDE				C-00660-030-EM	C-00660-035-EM	C-00660-040-EM	C-00660-045-EM	C-00660-050-EM
#6 OUTSIDE			P-00804					
#7 INSIDE					C-00670-035-EM	C-00670-040-EM	C-00670-045-EM	C-00670-050-EM
#7 OUTSIDE				P-00805				
#8 INSIDE						C-00680-040-EM	C-00680-045-EM	C-00680-050-EM
#8 OUTSIDE					P-00806			
#9 INSIDE							C-00690-045-EM	C-00690-050-EM
#9 OUTSIDE						P-00807		
#10 INSIDE								C-00700-050-EM
#10 OUTSIDE							P-00808	
#11 OUTSIDE								P-00809

*Section #1 includes a New Spline End and fasteners



MM - Metric Measuring

SECTION #	USTS-016-MM	USTS-020-MM	USTS-025-MM	USTS-030-MM	USTS-035-MM	USTS-040-MM	USTS-045-MM	USTS-050-MM
	16'	20'	25'	30'	35'	40'	45'	50'
#1 TIPLOCK*	P-00800-016-MM	P-00800-020-MM	P-00800-025-MM	P-00800-030-MM	P-00800-035-MM	P-00800-040-MM	P-00800-045-MM	P-00800-050-MM
#1 NON TIPLOCK*	P-00801-016-MM	P-00801-020-MM	P-00801-025-MM	P-00801-030-MM	P-00801-035-MM	P-00801-040-MM	P-00801-045-MM	P-00801-050-MM
#2	C-00620-016-MM	C-00620-020-MM	C-00620-025-MM	C-00620-030-MM	C-00620-035-MM	C-00620-040-MM	C-00620-045-MM	C-00620-050-MM
#3	C-00630-016-MM	C-00630-020-MM	C-00630-025-MM	C-00630-030-MM	C-00630-035-MM	C-00630-040-MM	C-00630-045-MM	C-00630-050-MM
#4 INSIDE		C-00640-020-MM	C-00640-025-MM	C-00640-030-MM	C-00640-035-MM	C-00640-040-MM	C-00640-045-MM	C-00640-050-MM
#4 OUTSIDE	P-00802							
#5 INSIDE			C-00650-025-MM	C-00650-030-MM	C-00650-035-MM	C-00650-040-MM	C-00650-045-MM	C-00650-050-MM
#5 OUTSIDE		P-00803						
#6 INSIDE				C-00660-030-MM	C-00660-035-MM	C-00660-040-MM	C-00660-045-MM	C-00660-050-MM
#6 OUTSIDE			P-00804					
#7 INSIDE					C-00670-035-MM	C-00670-040-MM	C-00670-045-MM	C-00670-050-MM
#7 OUTSIDE				P-00805				
#8 INSIDE						C-00680-040-MM	C-00680-045-MM	C-00680-050-MM
#8 OUTSIDE					P-00806			
#9 INSIDE							C-00690-045-MM	C-00690-050-MM
#9 OUTSIDE						P-00807		
#10 INSIDE								C-00700-050-MM
#10 OUTSIDE							P-00808	
#11 OUTSIDE								P-00809

*Section #1 includes a New Spline End and fasteners

BLUE STRIPE® Hot Stick Repair Guide

STANDARD GROUND OPERABLE TELESCOPIC

PLUG ASSEMBLIES:

Plug Assemblies for sections #2 and higher are held in place with 3/16" x 3/8" Stainless Steel, Beveled and Grooved Drive Pins. Section #1 Plug and Tiplock Assemblies use a 1/8" x 3/8" Stainless Steel Roll Pin.

REMOVE - Carefully drive each pin out using a drift/punch that is SMALLER than the pin. Discard old drive pins that do NOT have a beveled end. **Drive Pins were updated in 2019 and are available as a pack of 20 using Part# P-00688.**

INSTALL - Only reuse pin holes if they are smooth, round, and offer a tight fit. When in doubt, drill new holes.

1. Insert the assembly (complete with springs, caps, and button) and align the button horizontally in the button hole with the assembly tight against the base of the fiberglass. Note the location of the open cavities of the plug assembly.
2. Determine best hole location:
 - a. should be halfway between the button hole and the end of the fiberglass
 - b. should be perpendicular to the fiberglass in both directions
 - c. should intersect an open cavity in the plug assembly
 - d. should not exceed the Maximum Number of holes in each fiberglass section, see chart below
3. Use a sharp #15 Drill Bit (section #1 Roll Pin requires 1/8" drill bit) and drill one hole through the fiberglass and plug assembly.
4. Carefully drive a pin in, beveled end first, until it is level with the fiberglass surface. Be sure the drive pin is tight.
5. Repeat Steps #2-4, see chart below. Verify the plug is solid, the buttons work smoothly without binding and the pins are flush.



CURRENT DRIVE PIN

Use #15 Drill Bit



Roll Pins use a 1/8" Drill Bit



END CAPS / RUBBER BOOTS:

End Caps are held in place with 10-24 x 1/2" Stainless Steel, Round Head Phillips Screws. Rubber Boots are held in place with two 10-24 x 1 1/8" Stainless Steel, Round Head Phillips Screws and two washers.

REMOVE - Loosen the fasteners with a #2 Phillips Head Screwdriver.

INSTALL - Only reuse screw holes when End Caps are NOT being replaced. Holes should be smooth, round, and offer a tight fit. When in doubt, drill new holes. **End Caps were updated in late 2018 and are available individually.**

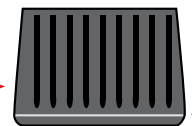
1. Insert the End Cap or Rubber Boot tight against the base of the fiberglass. Note the location of the open cavities of the end cap.
2. Determine best hole locations:
 - **LEGACY END CAP** (see pic): should be 1/2" up from the bottom of the fiberglass
 - **CURRENT END CAP** (see pic): should be 5/8" up from the bottom of the fiberglass
 - **RUBBER BOOT** (see pic): should be 3/4" up from the molded seam of the Boot
 - should be perpendicular to the fiberglass in both directions
 - should intersect an open cavity in the end cap
 - should not exceed the Maximum Number of holes in each fiberglass section, see chart below
3. Using a sharp #25 Drill Bit, hold the End Cap or Rubber Boot tight against the base of the fiberglass and drill one hole through the fiberglass and End Cap or Rubber Boot.
4. Install the fastener (include washer for Rubber Boot) with a #2 Phillips Head Screwdriver.
5. Repeat Steps #2-4, see chart below.



LEGACY



CURRENT



RUBBER BOOT

Use #25 Drill Bit



SURFACE MAINTENANCE:

BLUE STRIPE® Fiberglass Hot Sticks use an epoxy fiberglass material that is non-woven. The unidirectional fiberglass creates a smooth surface which resists dirt and moisture.

1. Carefully remove surface dirt and contaminants while maintaining the original protective clear coat of the fiberglass. Use our BLUE STRIPE® Cleaner (USTS-CLEANER) or other pH balanced (non-acid, non-alkali) cleaner.
2. Thoroughly wax the stick using our BLUE STRIPE® Hot Stick Wax (USTS-WAX) or equivalent Carnuba wax prior to field use.
3. Best practices include applying generous amounts of silicone protectant to each stick prior to field use. Use either our disposable BLUE STRIPE® Silwipes (USTS-SILWIPE) or reusable BLUE STRIPE® Cloth (USTS-SILCLOTH).

SECTION #	# Pins / Screws	MAX # HOLES IN FIBERGLASS	PLACEMENT
#1 (Roll Pin)	2	2	180 ° Apart
#2	2	4	180 ° Apart
#3	2	4	180 ° Apart
#4	2	6	180 ° Apart
#5	2	6	180 ° Apart
#6	2	6	180 ° Apart
#7	2	8	180 ° Apart
#8	2	8	180 ° Apart
#9	4	8	90 ° Apart
#10	4	8	90 ° Apart
#11	4	8	90 ° Apart