HT-F3033
Fiber Optic Tool Kit

KIT CONTENTS:

1.HT-MJ018A CARBIDE SCRIBE
2.HT-MJ027 SYRINGE
3.HT-S144H STRIPPER
4.HT-MN002 A/B FAST EPOXY GLUE
5.HT-MN012 CLEANSER
6.HT-MMB006 ST POLISH DISC
7.HT-MMB005 SC POLISH DISC
8.HT-MN011 WIPE PAPER
9.HT-C151 KEVLAR CUTTER
10.HT-MN001 GLASSES WORKING PAD
11.HT-225H CRIMP TOOL
12.HT-MN0041(6um-BROWN COLOR)DIAMOND POLISH FILM
13.HT-MN0051(1um-PURPLE COLOR)DIAMOND POLISH FILM
14.HT-MN0031(0.05um-WHITE COLOR)ALUM.OXIDE POLISH FILM
15.HT-PB042 RUBBER WORKING PAD
16.HT-MN006 EPOXY MIXER
17.HT-MN007 EPOXY MIXER PAD

OPTICAL FIBER TERMINATION KIT

Please refer to the rear page for individual tool introduction.

1. WARNING. :

1.) Pls. Be careful with the operation. Bare fiber is danger to our eyes and skin. After cutting , dispose it with tape.

2.) Cleanser includes alcohol, so be aware if eye contact.

3.) Improper tear , bend and squeeze could disfigure the fiber cable and result in resetting the cables.

2. OPERATION MANUAL

For ST/SC 3mm Single mode optical fiber .

Step 1 . Slide the 3mm boot (small end first) down to the cable until it is out of the way . (As **Figure 1**)

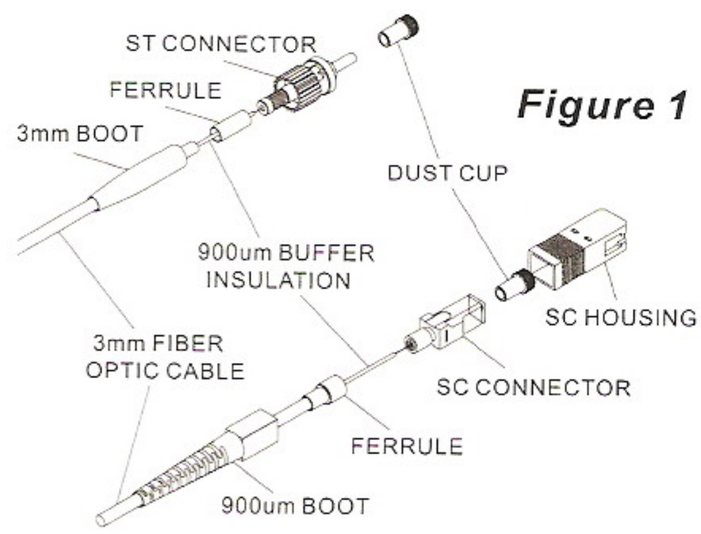

Figure 1

Step 2 . Strip off about 35mm for ST /30mm for SC of outer jacket with HT-S144H stripping tool (As **Figure 2**) , maintain 10mm(ST)/8mm(SC) of the Kevlar and cut off the rest with HT-C151 cutter .

Step 3 . Fold the Kevlar back over the cable jacket and then slide the ferrule down and to hold the Kevlar , thus exploding the 900um cable.(As **Figure 3**)

Step 4 . Remove 18mm(ST/SC) of 900um buffer insulation with the second hole of HT-S144H , And then use the last hole (smallest hole) of HT-S144H to remove the acrylate coating (As **Figure 2**) . Clean the fiber with the cleanser HT-MN012/HT-MN008 .

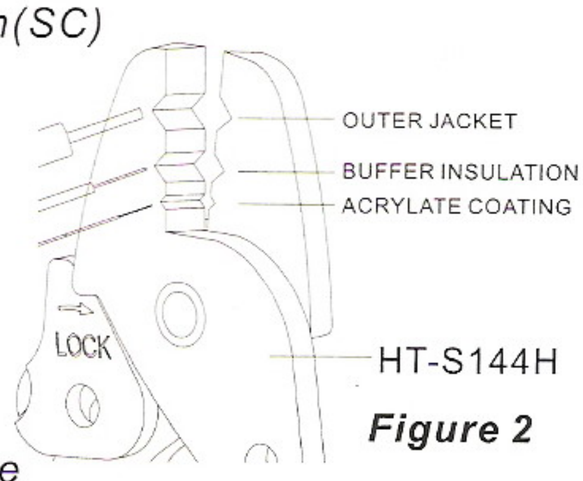

Figure 2

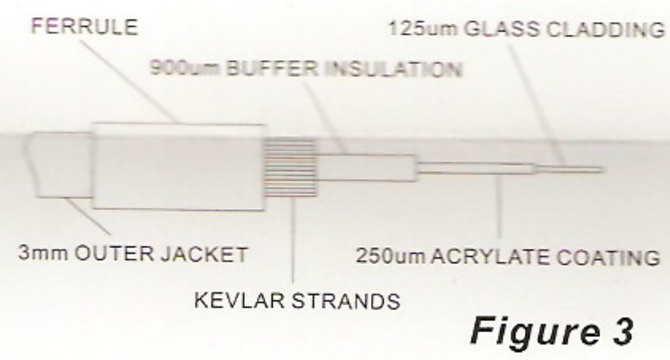

Figure 3

Step 5 . Clean the optic fiber connector with wipe paper and then inject it with the mix of A/B fast epoxy glue.(As **Figure 4**)

Figure 4

Step 6 . Insert the bare fiber into ST/SC Conn. entirely until it stops . And then smear a little mixed epoxy glue on the top of Conn.

Step 7 . Hold the cable and slide the ferrule back along the cable jacket to free the kevlar , flare the Kevlar around the buffered fiber . Hold the connector and push the ferrule over the Kevlar and sleeve it . Crimp the ferrule onto the connector with HT-225H(As **Figure 5**) . Smear a little mixed epoxy glue on the sleeve and fit the boot.

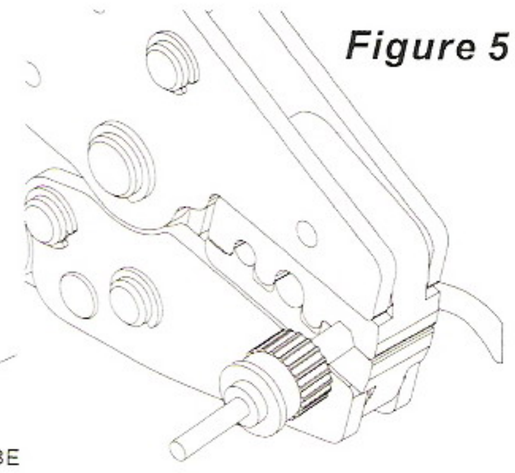

Figure 5

Step 8 . When the epoxy glue is solidified , cut the bare fiberover the top of connector with the carbide scribe. HT-MJ018A.(As **Figure 6**)

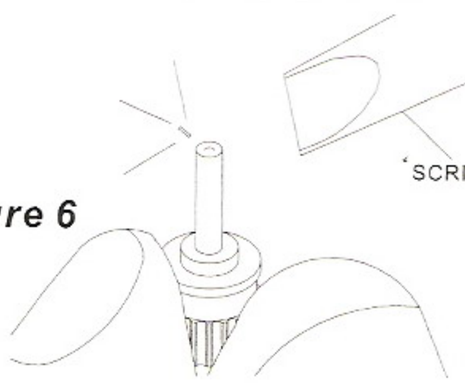

Figure 6

Step 9 . Fasten the connector into ST/SC polish disc. Set the diamond polish film , HT-MN0041 , on the rubber working pad first , polishing the top of connector on the polish film as "8" character about 20 cycles . Follow the same steps to use HT-MN0051 and last HT-MN0031 (As **Figure 7**) .

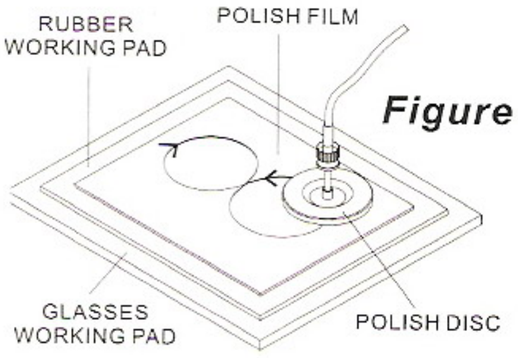

Figure 7

Step 10 . After polishing work completed . Inspect the end of surface with microscope or other related instrument .

Step 11 . After finishing above steps . Use cleanser , HT-MN012 , to clean the contact part. Then install the dust cup .