











## 7. APPLICATION NOTES STANDARD TOP LOADING SOCKET

### 7.1. STANDARD TOP LOADING SOCKET (22-9159)

**Sliding  
Cover**

**Connector  
Body**

The top-loading socket is designed to be used with the standard plug connector (10-9159) when used in an end to end strip configuration.

The purpose of the top load socket is to allow the fitting and removal of a PCB in a line of connected PCB's without the disassembly of the entire row of PCB's.

The principal used is that the top load socket has a sliding top cover which when slid back allows the plug to be removed vertically.

Top Load Socket  
with cover

Top Load Socket  
with cover closed

**Sliding  
Cover**

Top Load Socket with  
cover opened with plug

Top Load Socket with cover  
closed with plug inserted

### 7.2. TOP LOADING SOCKET BOARD REMOVAL/FITTING PROCESS

To assemble new strips of PCB's, ensure all top covers of Top load sockets are close and insert plugs into the top load sockets in a normal mating manner.

**Slide the cover back on the mating socket(s); slide fully back to stop.  
Insert the socket end of the new PCB onto the free plug.**

To remove a PCB from a assembled strip of PCB's, slide back the top covers of the board to be removed and also the adjacent board and remove the PCB by lifting out the free end and sliding out the socket from the under the plug on the other end.

**Drop the plug end of the PCB into the top-loading socket.**

To fit a PCB you simply reverse the procedure above. The details below show the process of fitting a PCB into a line of pre-assembled PCB's.

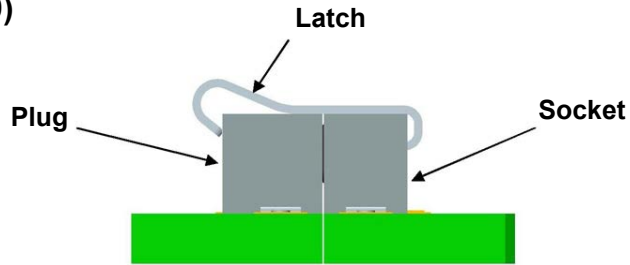
**Slide the covers forward over the plugs at both ends until they lock into the normal position.**

## 8. APPLICATION NOTES STANDARD RETAINING CLIP

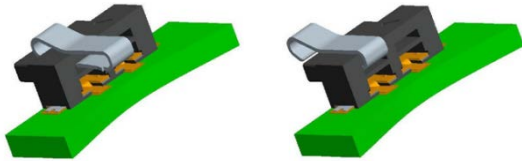
### 8.1. STANDARD RETAINING CLIP (80-9159)

The retaining clip is designed to lock together a pair of mating plug (10-9159) and socket (20-9159) connectors.

This clip will not fit the top load socket or the wired plug.

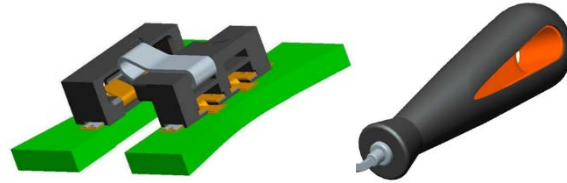


### 8.2. INSERTING THE RETAINING CLIP



Slide retaining clip into slot in rear of plug. We offer an insertion tool to assist with the fitting of the clip.

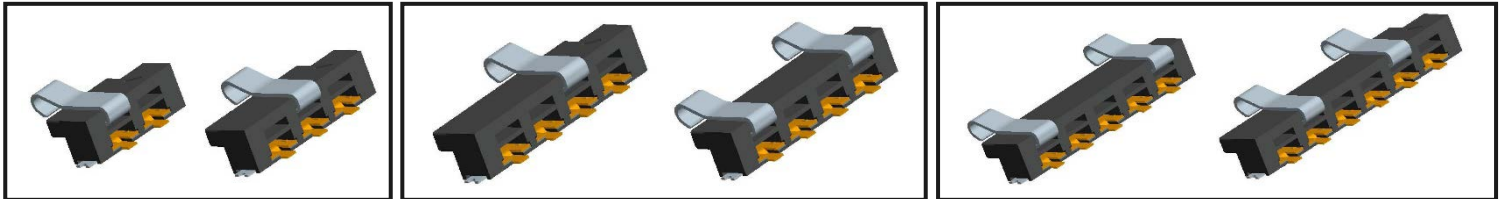
Tool reference 06-9159-7025-01-000



Mate plug onto socket, correctly positioned clip should latch over socket insulator with no gap between connectors.

### 8.3. RECOMMENDED NUMBER OF CLIPS

It is recommended to use one clip on the 2 and 3 way connector and two clips on the 5 and 6 way connector. The 4 way will normally only require one clip but two may be used.



## 9. APPLICATION NOTES SPECIAL SHORTING LINK

### 9.1. SPECIAL SHORTING LINK (58-9159)

The special shorting link is designed to fit at the end of a PCB strip section to short the final 2 contacts and provide a return loop.

This allows the user to use the same PCB's throughout and simply clip the special shorting link on the last plug to complete the circuit.

The special shorting link is only available as a 2way socket.

The connector has a built in integral latch, which locks in onto the mating plug connector.

