Please take appropriate steps to avoid ESD damage when handling the Communication and Display Module assemblies.

The display module includes a connector that interfaces with the communication module. These instructions specify the procedure to install the display module.

**NOTE:** Do not change the display module type without confirming the display compatibility and purchasing the required display upgrade kits.

<table>
<thead>
<tr>
<th>Transmitter Type/Display Type</th>
<th>Standard Display</th>
<th>Basic Display</th>
<th>Advanced Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 800</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ST 700 (Standard)*</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>ST 700 (Basic)*</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>STT850</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>STT750</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>SLG 700</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>SMV800</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Refer to Table 1 to identify ST 700 Basic and Standard models.
Refer to Figure 1 for parts locations

Tools required

<table>
<thead>
<tr>
<th>For this item</th>
<th>Use this tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3 set screw for end cap removal</td>
<td>1.5 mm Allen key</td>
</tr>
<tr>
<td>Transmitter re-assembly</td>
<td>Parker Super O-ring lubricant or equivalent</td>
</tr>
<tr>
<td>Field upgrades</td>
<td>Pliers</td>
</tr>
</tbody>
</table>

**Step – 1:** When installed as explosion-proof or flame-proof in a hazardous location, keep covers tight while the transmitter is energized. Disconnect power to the transmitter in the non-hazardous area prior to removing end caps for service. When installed as non-incendive or non-sparking equipment in a hazardous location, disconnect power to the transmitter in the non-hazardous area, or determine that the location is non-hazardous before disconnecting or connecting the transmitter wires.

**Step – 2:** Loosen the end cap screw lock, and unscrew the end cap from the electronics side of the Transmitter housing.

Install the Display module as follows:

a) Orient the display as desired.
b) Install the Interface Connector in the Display module such that it will mate with the socket for the display in the Communication module.
c) Carefully line up the display, and snap it into place. Verify that the two tabs on the sides of the display latch.

**Note:** Installing a Display Module into a powered transmitter may cause a temporary upset to the loop output value.

Orient the Display for proper viewing through the end cap window.
You can rotate the meter mounting orientation in 90° increments.

**Step – 3:** Apply Parker Super O-ring Lubricant or equivalent to the end cap o-ring before installing the end cap. Install the new display end cap provided and tighten the end cap locking screw.

**Step – 4:** (Steps 4 – 7 required for Field Upgrades* Only) Loosen the End Cap locking screw and unscrew the End Cap from the Field Wiring side of the transmitter housing.

*NOTE: Field Upgrades are not applicable to ST 700 Basic model transmitters.
Refer to Table 1 to identify ST 700 Basic and Standard models.
**Step – 5:** Select the proper Display/Indicator upgrade kit label from the label strip provided and adhere to the inside of the Field Wiring compartment End Cap.

**Step – 6:** Apply Parker Super O-ring Lubricant or equivalent to the end cap O-ring before installing the end cap. Reinstall the End Cap and tighten the end cap locking screw.

**Step – 7:** Install external upgrade Nameplate (i.e. DEVICE MODIFIED…..) provided on outside of housing as shown in Figure 1.

**Step – 8:** Restore power if removed.

---

**Table 1 – ST 700 Standard and Basic model types**

<table>
<thead>
<tr>
<th>Transmitter Configuration</th>
<th>Smart Line Pressure ST700</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard Models</td>
</tr>
<tr>
<td>Dual head DP</td>
<td>STD720/730/770</td>
</tr>
<tr>
<td>Dual head GP</td>
<td>STG730/740/770</td>
</tr>
<tr>
<td>Inline GP</td>
<td>STG73L/74L/77L/78L/79L</td>
</tr>
<tr>
<td>Inline flush GP</td>
<td>STG73P</td>
</tr>
<tr>
<td>Dual head AP</td>
<td>STA722/740</td>
</tr>
<tr>
<td>Inline AP</td>
<td>STA72L/74L/77L</td>
</tr>
<tr>
<td>Flush flanged liquid level</td>
<td>STF724/732</td>
</tr>
<tr>
<td>Pseudo flanged liquid level</td>
<td>STF72F/73F</td>
</tr>
<tr>
<td>Remote seal DP/GP</td>
<td>STR73D/74G</td>
</tr>
</tbody>
</table>
Figure 1 - Display Module Installation representation of ST 800

(Other models may vary)
Sales and Service
For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

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