

Installing the Display Module

**Instruction sheet for SmartLine Transmitters:
ST 700 and ST 800 Pressure Transmitters,
STT 850 & STT 750 Temperature Transmitters,
SLG 700 Level Transmitters,
SMV 800 Multivariable Transmitters**

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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.

Transmitter Type/ Display Type	Standard Display	Basic Display	Advanced Display
ST 800	No	Yes	Yes
ST 700 (Standard)*	Yes	Yes	No
ST 700 (Basic)*	Yes	No	No
STT850	No	Yes	Yes
STT750	No	Yes	No
SLG 700	No	No	Yes
SMV800	No	No	Yes

* Refer to Table 1 to identify ST 700 Basic and Standard models.

Refer to Figure 1 for parts locations

Tools required

For this item	Use this tool
M3 set screw for end cap removal	1.5 mm Allen key
Transmitter re-assembly	Parker Super O-ring lubricant or equivalent
Field upgrades	Pliers

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

Transmitter Configuration	Smart Line Pressure ST700	
	Standard Models	Basic Models
Dual head DP	STD720/730/770	STD725/735/775
Dual head GP	STG730/740/770	STG735/745/775
Inline GP	STG73L/74L/77L/78L/79L	STG73S/74S/77S/78S/79S
Inline flush GP	STG73P	STG73SP
Dual head AP	STA722/740	STA725/745
Inline AP	STA72L/74L/77L	STA72S/74S/77S
Flush flanged liquid level	STF724/732	STF725/735
Pseudo flanged liquid level	STF72F/73F	STF72P/73P
Remote seal DP/GP	STR73D/74G	STR735D/745G

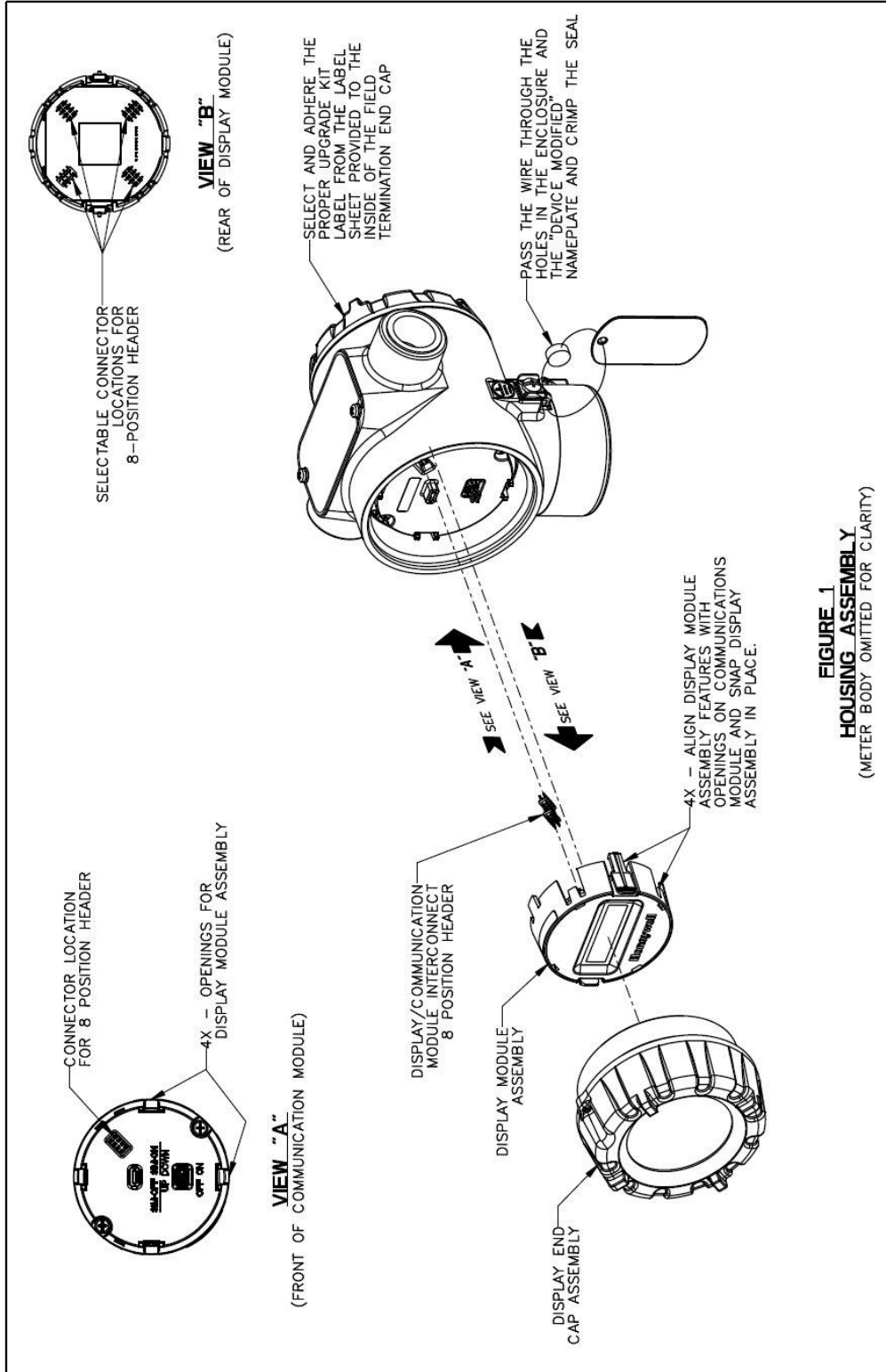


FIGURE 1
HOUSING ASSEMBLY
 (METER BODY OMITTED FOR CLARITY)

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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