

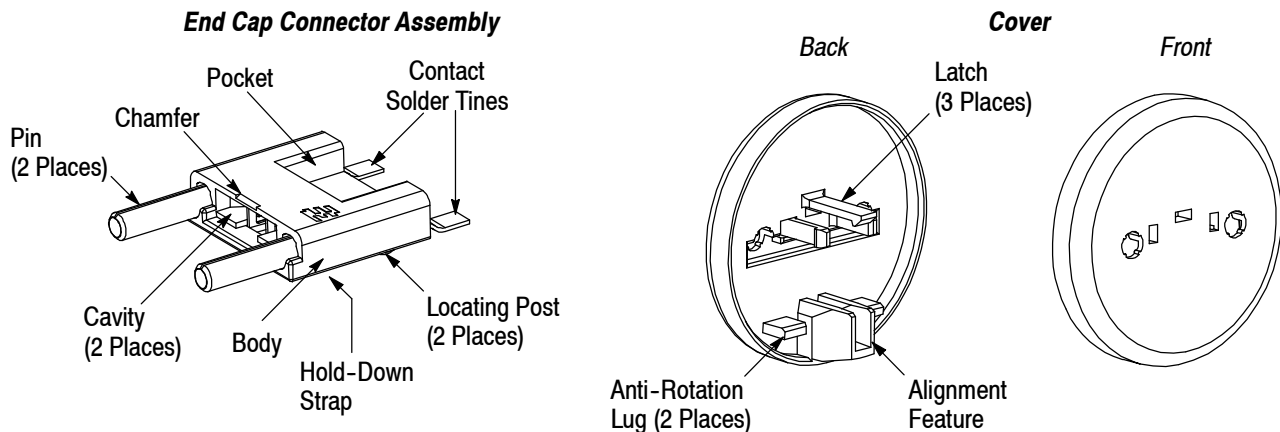


Figure 1

1. INTRODUCTION

SMT End Cap Connector Assembly 2106150-1 and Cover 2106153-1, shown in Figure 1, are used to interface the string of a printed circuit (pc) board with a standard G13 bipin socket to retrofit into fixtures designed for T8 or T12 fluorescent light tubes. Two connector assemblies and covers are required for one light tube.

NOTE

Figures are not drawn to scale.



2. DESCRIPTION

The connector assembly has two solder type contacts and two pins. The body features a locating posts for proper placement of the connector on the pc board and a chamfer for ease in installing the cover onto the connector. The body also features a hold-down strap.

The cover features latches that “snap” onto the pocket and the cavities of the connector to prevent disengagement, an alignment feature to ensure proper alignment with the light tube, and anti-rotation lugs.

3. ASSEMBLY PROCEDURE

1. Refer to Figure 2, Detail A, and place the connector assembly onto the pc board according to the following:

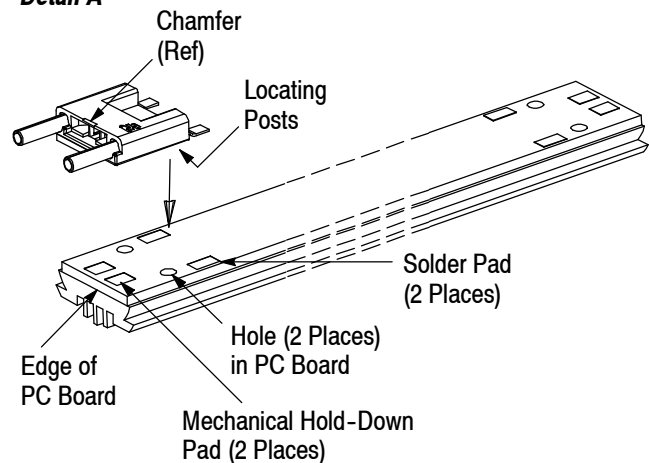
- align the locating posts with the holes in the pc board
- align the edge of the connector body (having the chamfer) with the edge of the pc board

— center (slight misalignment is permissible) the contact solder tines onto the pc board pads

2. Solder the contact solder tines and hold-down strap of the connector to the pc board (soldering requirements are given in Application Specification 114-13255). Refer to Figure 2, Detail B.

Installing Connector onto PC Board

Detail A



Detail B

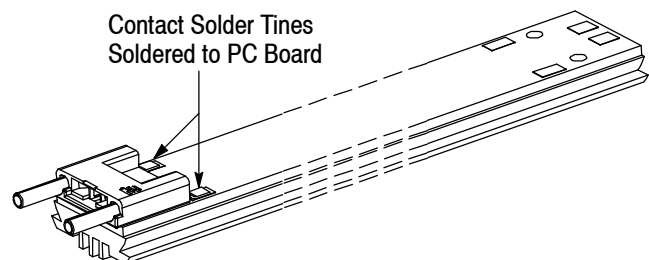


Figure 2

3. Align the holes of the cover with the pins of the connector, and orient the cover so that the anti-rotation lugs face the ribs of the light tube heat sink extrusion, then slide the cover onto the pins so that the top locking latch engages the pocket of the connector and the side locking latch engages the cavities of the connector. There should be an audible "click". See Figure 3.

NOTE


The alignment feature and anti-rotation lugs of the cover should engage the ribs of the light tube heat sink extrusion.

4. Refer to Figure 4, and inspect each installed assembly to make sure that:

- the connector is sitting flat on the pc board
- the solder is bonded to each contact solder tine and pc board solder pad, and the hold-down strap and each mechanical hold-down pad
- the cover is secure
- the pins are not deformed in any way

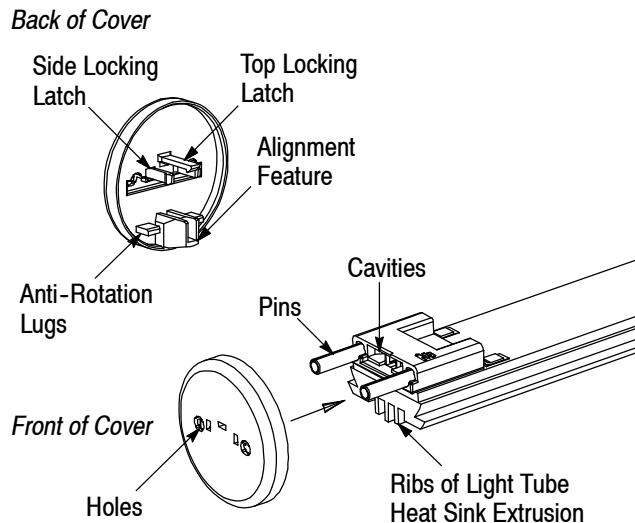
Installing Cover onto Connector


Figure 3

4. REPLACEMENT AND REPAIR

The connector assembly and cover are not repairable. DO NOT use damaged or defected product.

5. REVISION SUMMARY

- Updated document to corporate requirements.

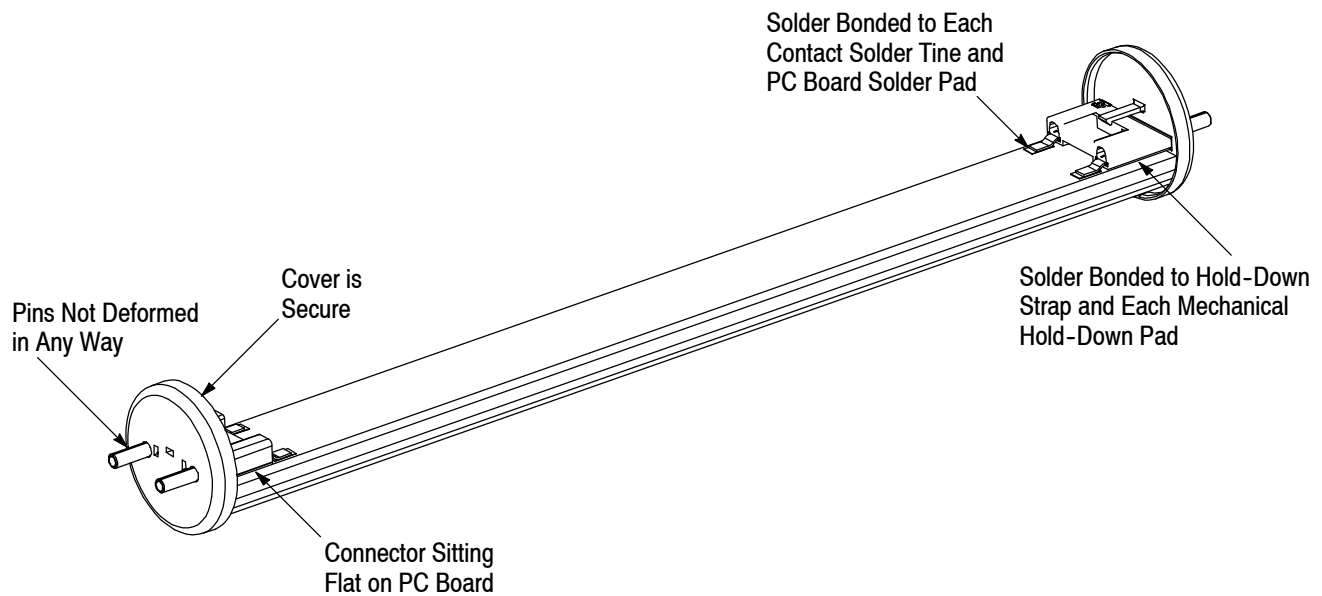
Completed Assembly


Figure 4