

NOTE: All components must be ordered separately.

Figure 1

1. INTRODUCTION (Figure 1)

This instruction sheet provides assembly instructions for the 4-Position Seat Motor Connector. This connector will mate with variations of a customer-supplied Bosch Seat Motor Device as shown in Figure 1. Tyco Electronics' Junior Power Timer Receptacle (JPT) Contacts (P/N 927771-[]), and Micro Timer III (MT3) Receptacle Contacts (P/N 968052-[]) are used, as required by the applicable Bosch device. The terminal secondary lock (P/N 968183-1) is ordered separately, and is used to provide greater contact retention within the housing.



Dimensions in this instruction sheet are in metric units [with U.S. customary units in brackets]. Figures are not drawn to scale.

2. ASSEMBLY PROCEDURES

Refer to Application Specification 114-18050-1 for crimp information and requirements for the Junior Power Timer Receptacle Contacts, and Application Specification 114-18081-1 for crimp information and requirements for the Micro Timer III Receptacle Contacts.

2.1. Contact Insertion (Figure 2)

Housing cavity design dictates the contact orientation. This orientation will ensure proper mating with the tab

contacts in the Bosch device as shown in Figure 1. Insert the contacts until a tactile and audible “click” is heard.

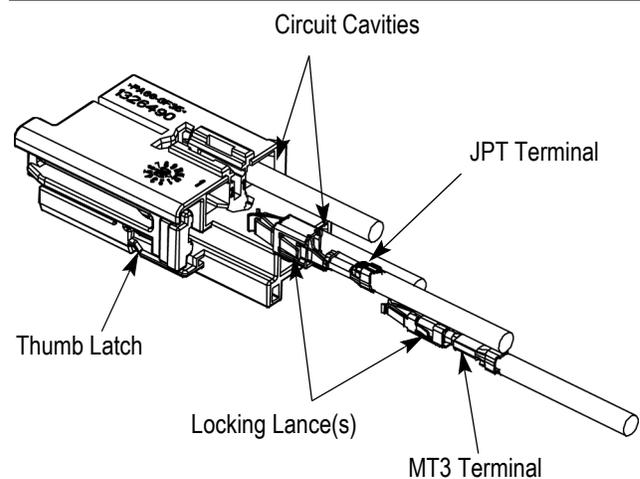


Figure 2

2.2. Terminal Secondary Lock

The terminal secondary lock is installed after all contacts have been fully seated. Align the “V” feature of the secondary lock with the “V” feature in the housing and push until flush with the outer shroud of the housing. See Figure 3.

Terminal Secondary Lock Flush with Outer Shroud of Connector Housing

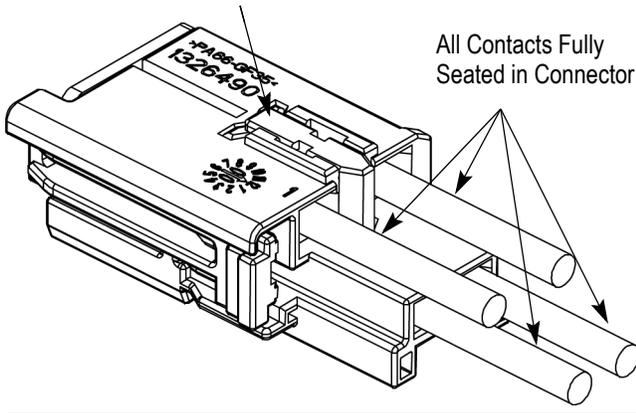


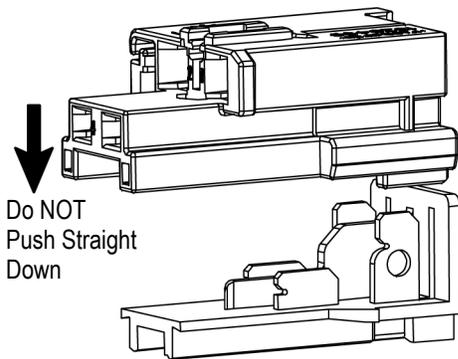
Figure 3

2.3. Alignment and Mating to Bosch Device

This connector interface does not include all of the typical shrouding and alignment features that are common to most wire-to-device connection systems. The two most common connector-to-interface assembly issues are illustrated in Figure 4A and 4B.

A

INCORRECT



B

INCORRECT

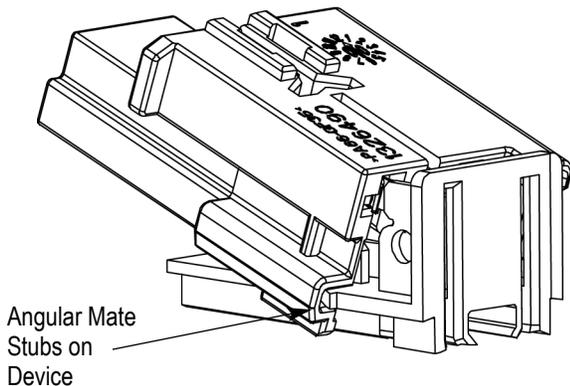


Figure 4

The front alignment rail design makes it more difficult to mate the connector at an angle as illustrated in Figure 4B. With enough force, it is still possible to make electric contact with the two power pins with this misalignment. However, the thumb latch will not lock onto the interface device. Most of the connector alignment to the interface is achieved through the back alignment rail design. Proper connector alignment in this area is crucial to product performance. See Figure 5.

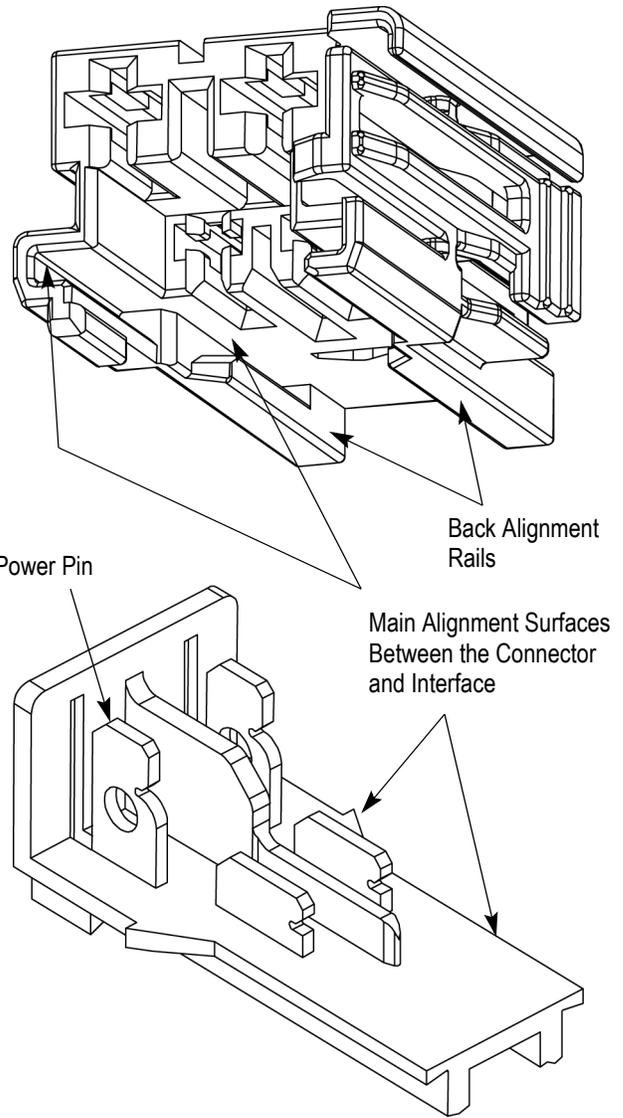


Figure 5

Figure 6 attempts to illustrate the proper method for mating the 4-Position Connector Housing onto the Bosch Seat Motor Device interface. This method will ensure that all connector alignment characteristics are fully utilized. Forward motion of the connector should not begin until the connector is flush with the interface as shown in Step 3 of Figure 6.

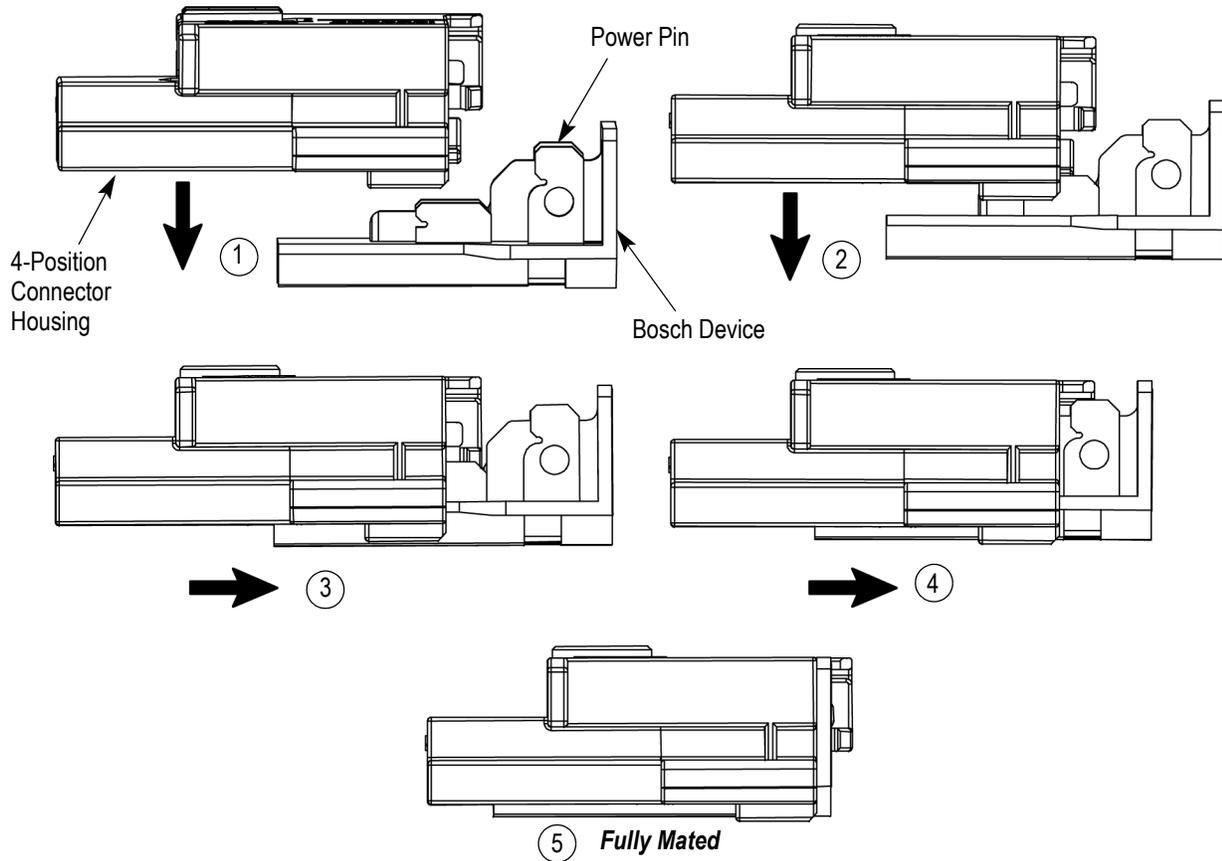


Figure 6

3. DISASSEMBLY PROCEDURES

3.1. Disengagement from Bosch Device

To disengage the 4-Position Connector Housing from the Bosch device, depress the thumb latch to release the connector and pull back and away from the Bosch device to disengage. See Figure 7.

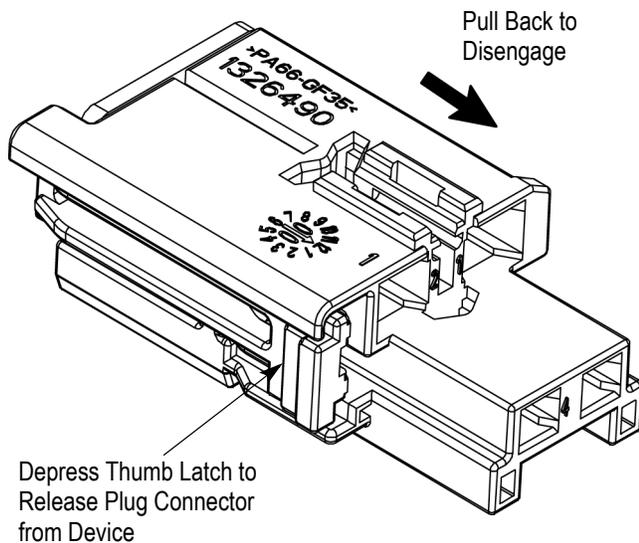


Figure 7

3.2. Contact Removal

1. To remove the contacts from the 4-Position Connector Housing, remove the secondary lock from the housing using a small screwdriver (or similar tool). Press the bottom portion of the secondary lock away from the housing until fully removed. See Figure 8.

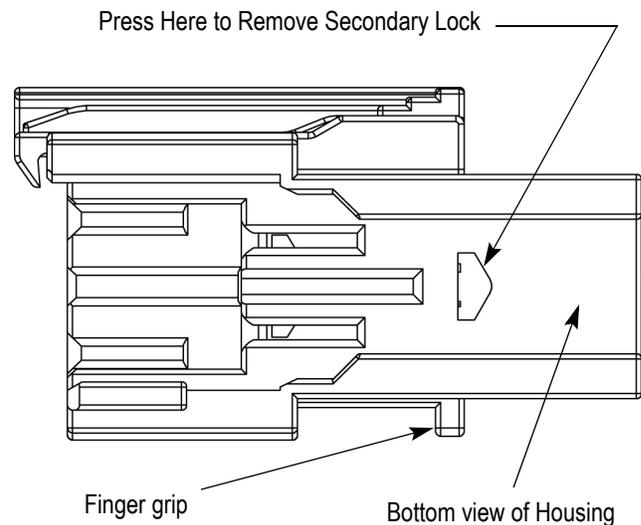


Figure 8

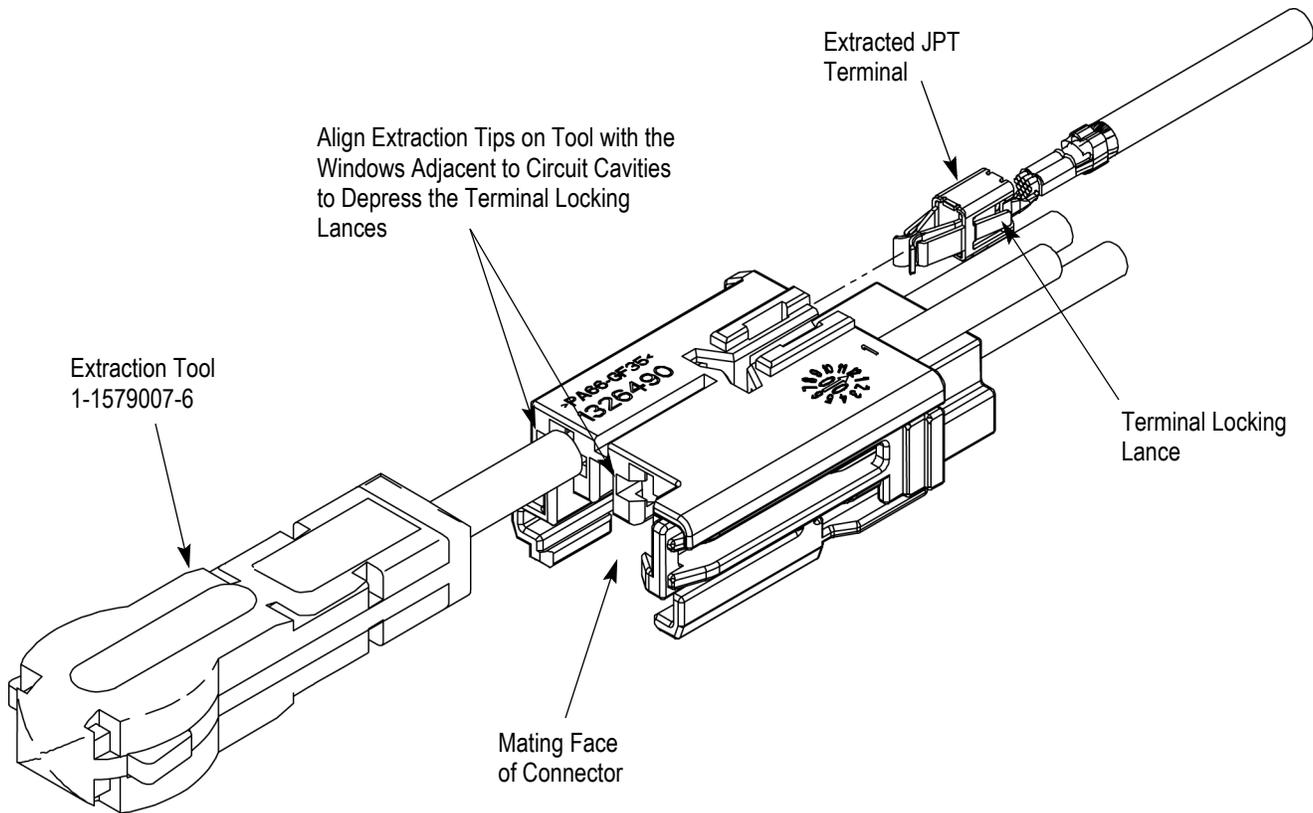


Figure 9

2. Apply a slight pressure on the wire of the terminal to be extracted toward the mating face of the connector housing.

3. Insert the extraction tool into the window adjacent to the circuit cavity (on the mating face of connector housing) as far as possible. The tool is designed to press the two locking lances on the terminal. For the Junior Power Timer contacts, use Extraction Tool 1-1579007-6, and for the Micro Timer III contacts, use Extraction Tool 726534-1.

4. With the extraction tool fully inserted, pull the terminal out of the back of the housing. Refer to Figure 9.

4. REVISION SUMMARY

Revisions to this instruction sheet include:

- Updated document to corporate requirements.