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| Title of Document: | HANDLING MANUAL | Issue No. CHM-1-2501 | Rev. 1 |
| Customer: | GENERAL | Issue date: August 28, 2013 | |
| Title subject: | ADH Connector (Header) | Revision date: September 7, 2022 | |

This manual describes important and required points of handling the ADH connector.
Be sure to read this manual thoroughly before using this connector and handle the connector according to the instructions shown in the manuals.

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| JST | Title subject: ADH Connector (Header) | No. CHM-1-2501 |
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1. Model Number and Part Name

1-1 Model number

| Part name | | Type/Circuit No./Wire size | Model number |
|-----------|---|---------------------------------|-----------------------------------|
| Header | Embossed-taping (Note ₃) | 2 circuits | BM02(3)B-ADH()S-GAN-ETB (LF)(SN) |
| | | 3 circuits | BM03B-ADH()S-GAN-ETB (LF)(SN) |
| | | 5 circuits | BM05B-ADHKS-GAN-ETB(HF) |
| | Loose piece | 2 circuits | BM02(3)B-ADH()S-GAN (LF)(SN) |
| | | 3 circuits | BM03B-ADH()S-GAN (LF)(SN) |
| | | 5 circuits | BM05B-ADHKS-GAN(HF) |
| Socket | Housing | 3 circuits | ADHR-03V-() |
| | | 5 circuits | ADHR-05V-S(HF) |
| | Contact | Type 002 (Standard type) #26 | SADH-002G-P0.2 |
| | | Type 003 (Standard type) #28 | SADH-003G-P0.2 |

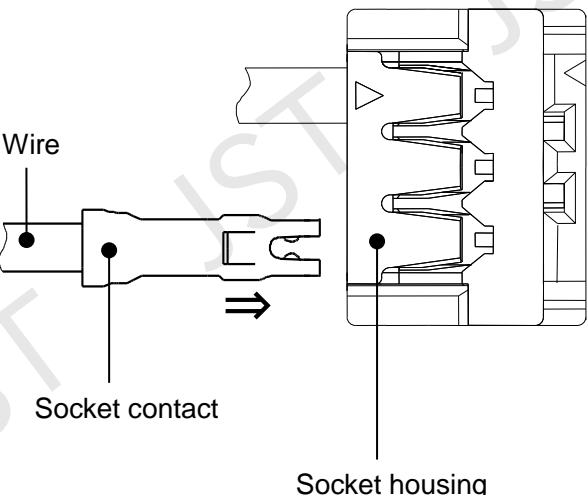
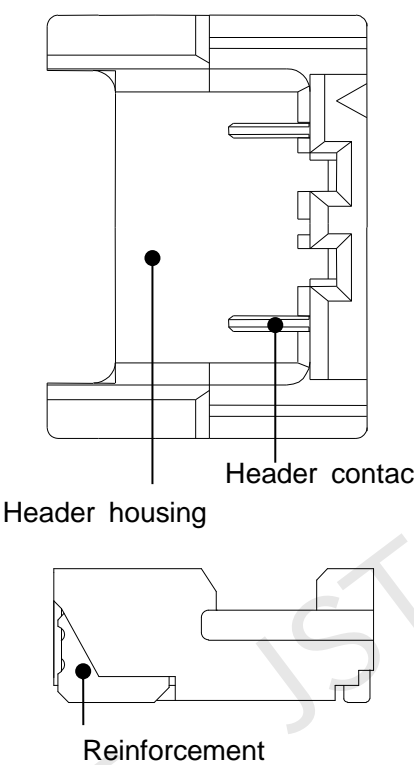
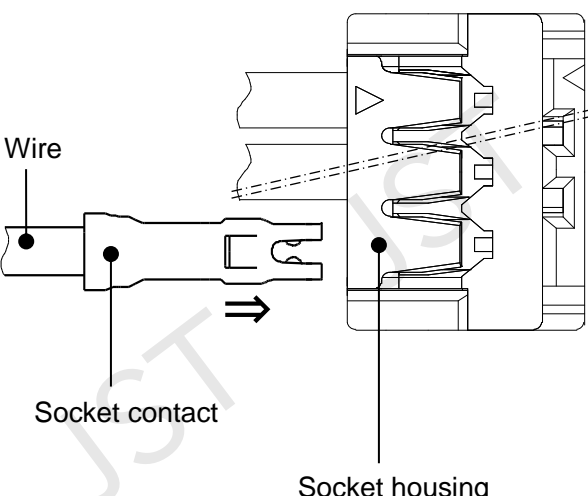
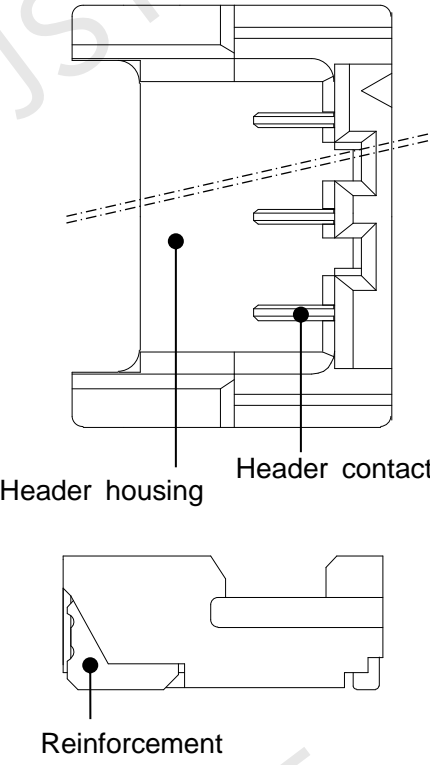
Note₁: 2-digit figures in “**” denote the circuit number.

An alphabet in “()” denotes the housing color.

Note₂: 2-circuit connector is the pin-omitted type of 3 circuits.

Note₃: The ADH connector header is supplied on embossed-tape. (5,000 pcs./reel)

1-2 Each part name

| Circuit no. | Socket | Header |
|--|---|---|
| <p>2 (Pin-omitted type of 3 circuits)</p> |  <p>Wire</p> <p>Socket contact</p> <p>Socket housing</p> |  <p>Header housing</p> <p>Header contact</p> <p>Reinforcement</p> |
| <p>3, 5</p> |  <p>Wire</p> <p>Socket contact</p> <p>Socket housing</p> |  <p>Header housing</p> <p>Header contact</p> <p>Reinforcement</p> |

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2. Storage

Recommended storage condition: Temperature: 5 – 35 °C, Relative humidity 60 % or less
(Under packaging like the state of JST shipment)

Keep off direct sunlight, places exposing to such corrosive gas as industrial gas (generate from a stove and whatnot) and ammonia gas (generate from a toilet and whatnot), dusty place and condensation.

Note that the resin molding part may break due to transportation and handling, such as processing and mating, under dry or low temperature condition.
After unpacking, return products in the original package to store.

3. PC Board Pattern Layout

| Circuit No. | Layout | | | | | | |
|--|--|-------------|-------------|---|-----|---|-----|
| 2 (Pin-omitted type of 3 circuits) | | | | | | | |
| 3, 5 | <table border="1" data-bbox="1098 1787 1465 1892"> <thead> <tr> <th>Circuit No.</th><th>Dimension A</th></tr> </thead> <tbody> <tr> <td>3</td><td>2.6</td></tr> <tr> <td>5</td><td>5.2</td></tr> </tbody> </table> | Circuit No. | Dimension A | 3 | 2.6 | 5 | 5.2 |
| Circuit No. | Dimension A | | | | | | |
| 3 | 2.6 | | | | | | |
| 5 | 5.2 | | | | | | |

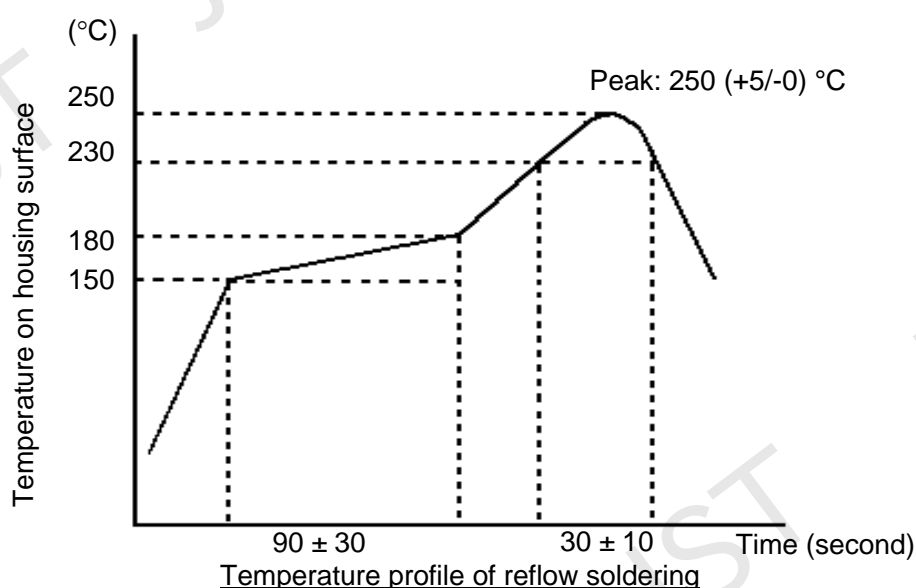
4. Precautions for Soldering Operation

4-1 Reflow soldering method

We recommend reflow soldering at lower temperature than the temperature profile shown below. However, the recommended reflow temperature condition varies depending on soldering materials, such as solder paste, so soldering check is necessary.

We recommend 0.12mm-thick metal mask with the blanking part which has the same area as the pad on PC board.

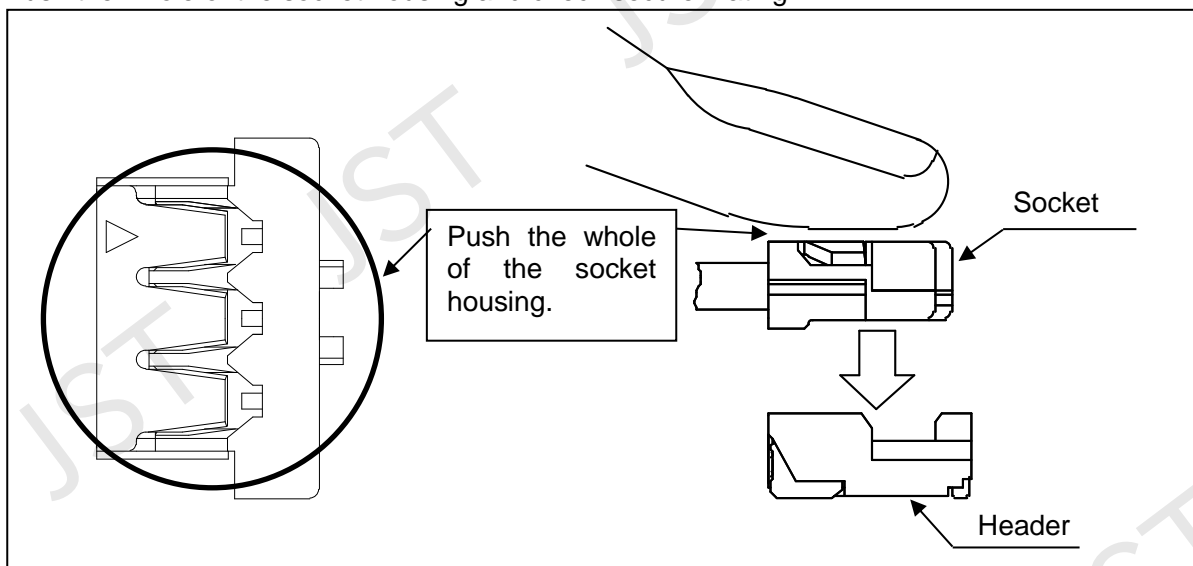
When a thicker metal mask more than 0.12mm is used, adjust the amount of solder by making the area of the blanking part smaller than that of the pad on PC board.



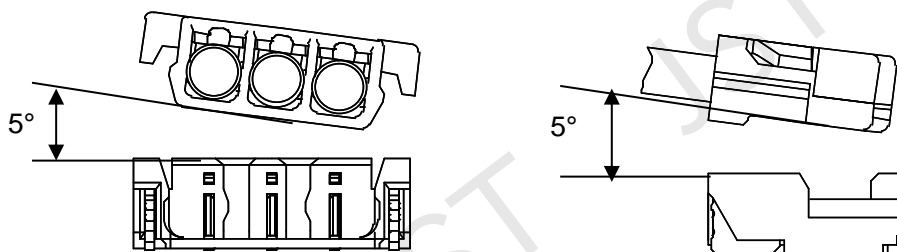
5. Handling Precautions

5-1 Mating operation

Mate the socket with the header on the mating axis.
Push the whole of the socket housing and check secure mating.

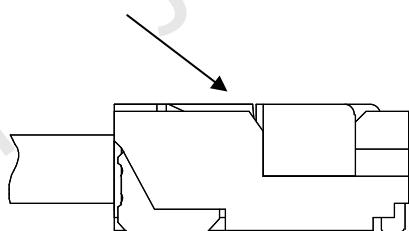
Points to be noted in handling

- ① Mate the connector with the counterpart in a straight as parallel as possible (MAX. 5°).
Neither push the only one end of the socket nor pry the wires by force in mating, because the housing may be damaged or the contact may be deformed.



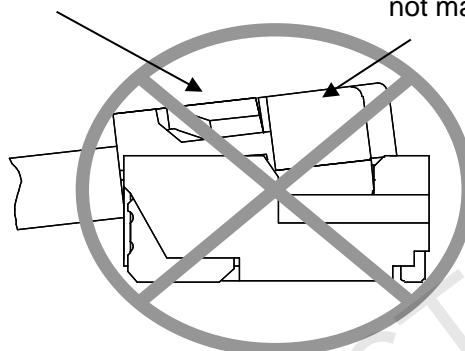
- ② After mating the connectors, check secure mating, referring to the following points.
In case of insufficient mating, referring to item 5-2, redo the mating.
(If the socket does not mate with the header, do not pull it out but push it until mating completely.)

There is no differences in level
between the socket and the header.



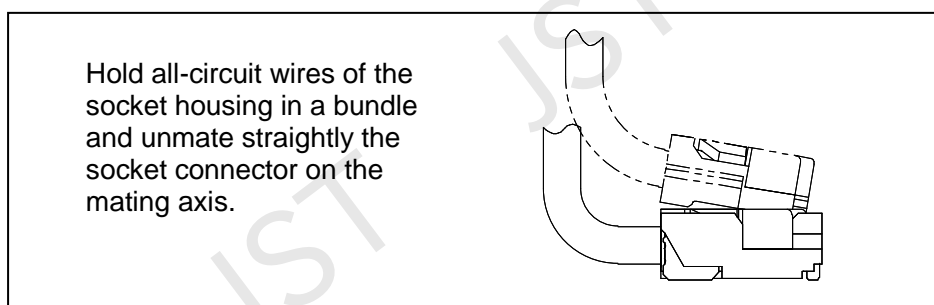
Uneven surface

The socket does
not mate.

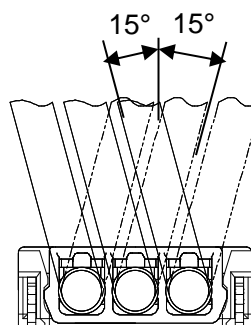
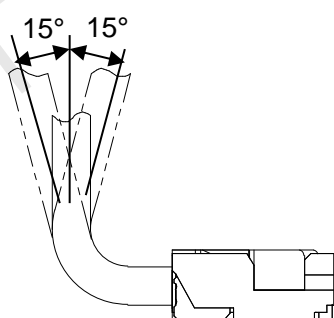


5-2 Unmating operation

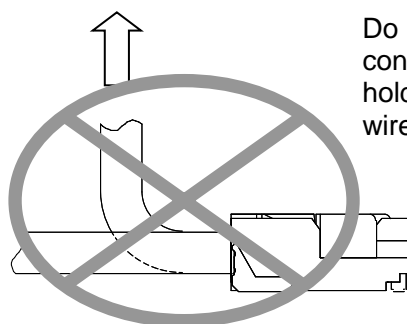
Hold all-circuit wires of the socket in a bundle and unmate straightly the socket connector on the mating axis.



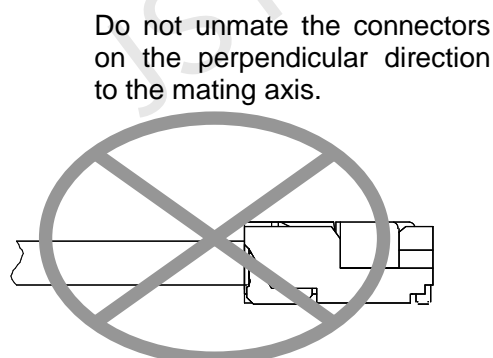
Unmate the connector by holding the wires at the angle within 15 degrees to the mating axis.

**Precautions**

Do not unmate the connectors while holding only several wires or on the perpendicular direction to the mating axis because the contact is deformed or the housing is cracked and shaved, which may result in troubles on the connector.



Do not unmate the connectors with holding only several wires.



5-3 Precautions

Handle the wires with care so as not to apply a larger load than tension due to wire bending to the connector. (Provide a space from the connector and do forming on the wires not to apply tension.)

