# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL PROCEDURES</td>
<td>4</td>
</tr>
<tr>
<td>Precautions</td>
<td>4</td>
</tr>
<tr>
<td>Procedures</td>
<td>4</td>
</tr>
<tr>
<td>Connector Inspection: Repair vs. Replace</td>
<td>4</td>
</tr>
<tr>
<td>How to Use Connector Disassembly Procedures</td>
<td>5</td>
</tr>
<tr>
<td>How to Use Application Guide</td>
<td>6</td>
</tr>
<tr>
<td>Retainer/Terminal Removal Tools</td>
<td>7</td>
</tr>
<tr>
<td>Spread Terminal Gauges (STG)</td>
<td>8</td>
</tr>
<tr>
<td>Automatic Wire Stripper</td>
<td>9</td>
</tr>
<tr>
<td>Flameless Heat Gun Kit, and Solder Sleeve</td>
<td>10</td>
</tr>
<tr>
<td>Connectors</td>
<td>11</td>
</tr>
<tr>
<td>Circuit Repair</td>
<td>14</td>
</tr>
<tr>
<td>Aluminum Wiring</td>
<td>15</td>
</tr>
<tr>
<td>Harness Repair Kit Suggestion Form</td>
<td>16</td>
</tr>
<tr>
<td>A FAMILY (144)</td>
<td>17</td>
</tr>
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<td>68</td>
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<tr>
<td>TABLE OF CONTENTS</td>
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Precautions
Observe the safety precautions described in the service manual for the electrical systems that are being repaired.

Procedures
NOTE: The wire crimped in the terminals included in this kit is the maximum gauge approved for use with the terminal. This wire may be larger than the existing wire in the vehicle.
How to Use Connector Disassembly Procedures

The following illustration shows how to use the connector disassembly procedures contained in this guide. The procedures are divided by connector family and each one contains the following information:

- Tool(s) required for procedure
- Terminal locking tab location
- Connectors in the family
- Removal of the retainer
- Removal of the terminal
- Animation of removal procedure

The following acronyms appear in this guide:

- RRT – Retainer Removal Tool (retainer/terminal removal tool blade used for removing terminal retainer)
- TRT – Terminal Removal Tool (retainer/terminal removal tool blade used to release terminal locking tab)
- STG – Spread Terminal Gauge (used to inspect female terminals for loose fit)

RETAINER REMOVAL METHOD

1. Place the RRT (01A) in the small hole between the retainer and the connector with the long side toward the retainer.
2. Use the RRT as a lever to gently lift the end of the retainer out of the connector. Pull the retainer outward until it stops and fold it away from the wires.

TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.
   NOTE: Locking tab is part of connector.
2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.

Description of Connector Disassembly Procedure Information
**How to Use Application Guide**

The following illustration shows how to use the application guide.

**Description of Application Guide Information**

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<th>Manufacturer connector type</th>
<th>Connector family (these are links to connector disassembly procedures)</th>
<th>Manufacturer terminal type</th>
<th>Solder sleeve part number</th>
<th>Terminal Removal Tool (TRT) part number</th>
<th>Spread terminal gauge (STG) part number (female terminals only)</th>
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</table>

**Bosch part number from kit**

- J-48817-101
- J-48817-201

**Manufacturer connector type**

- RH

**Connector family**

- All

**Manufacturer terminal type**

- Bosch

**Solder sleeve part number**

- J-47003-2

**Terminal Removal Tool (TRT) part number**

- J-48817-5

**Spread terminal gauge (STG) part number (female terminals only)**

- J-48817-5
Retainer/Terminal Removal Tools

<table>
<thead>
<tr>
<th>Blade number</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>01A</td>
<td>Universal</td>
</tr>
<tr>
<td>02A</td>
<td>M-HS</td>
</tr>
<tr>
<td>03A</td>
<td>RT-RS</td>
</tr>
<tr>
<td>04A</td>
<td>Screwdriver</td>
</tr>
<tr>
<td>05A</td>
<td>TH-HS</td>
</tr>
<tr>
<td>06A*</td>
<td>ABS-M</td>
</tr>
<tr>
<td>07A</td>
<td>A-HS</td>
</tr>
<tr>
<td>08A</td>
<td>P-HS</td>
</tr>
<tr>
<td>09A</td>
<td>NS-HS</td>
</tr>
<tr>
<td>10A*</td>
<td>RH-HS</td>
</tr>
<tr>
<td>11A</td>
<td>TK-HS</td>
</tr>
<tr>
<td>12A</td>
<td>FG-HS</td>
</tr>
<tr>
<td>13A*</td>
<td>ABS-SM</td>
</tr>
<tr>
<td>16A</td>
<td>Molex</td>
</tr>
<tr>
<td>01*</td>
<td>Separators</td>
</tr>
</tbody>
</table>

* The tool contains two of these.

J-48817-1 Retainer/Terminal Removal Tool

J-47003-11 Retainer Removal Tool

J-47003-14 TERMINAL REMOVAL TOOL

J-47003-15 TERMINAL REMOVAL TOOL

J-47003-34 TERMINAL REMOVAL TOOL

J-48817-25 TERMINAL REMOVAL TOOL

J-48817-26 TERMINAL REMOVAL TOOL

J-48817-29 TERMINAL REMOVAL TOOL

J-48817-33 TERMINAL REMOVAL TOOL

J-48817-35 TERMINAL REMOVAL TOOL
**NOTE:**

- Performing terminal removal and installation should be easy. Read each step before beginning the procedure. Not reading each step may lower technician efficiency.
- Determine whether the terminal locking tab is integral to the connector or the terminal - this will affect the direction of the motion required to release the terminal.
- Perform tool selection carefully – though a tool may appear to be the right shape, it may not be the correct tool for the connector.
- Use of two blades (with spacer between them) will be required to release some terminals.
- Unless otherwise directed, position the blade so the long side is against the connector.
- In some cases, the wire must be pushed into the connector slightly to relieve pressure applied to the locking tab by the terminal. Not relieving this pressure may prevent the terminal from becoming unlocked.

<table>
<thead>
<tr>
<th>Tool Contact Point on locking tab</th>
</tr>
</thead>
</table>

![Image of locking tab on connector body and terminal](image)

**Tool Contact Point**

**Use**

Retainer/terminal removal tool use varies depending on which connector type is being serviced. Read all of the notes provided above prior to beginning a repair.

---

**Spread Terminal Gauges (STG)**

Terminals passes test if spread terminal gauge compresses.

- J-48817-2
- J-48817-3
- J-48817-4
- J-48817-5
- J-48817-6
- J-48817-7
- J-48817-27
- J-48817-28
- J-48817-30
- J-48817-31
- J-48817-32
- J-48817-36

**NOTE:**

- Use the Spread Terminal Gauge (STG) to inspect female terminals for loose fit.
- Visually inspecting terminals is insufficient – using the STG test is the best method.
- Use of the wrong STG may give inaccurate test results or damage the terminal, causing problems.
- Refer to the Application Guide within this document to determine which STG should be used for each terminal.

**Use**

1. Select the correct STG for the terminal to be tested.
2. Align the tip of the STG with the terminal.
3. While moving the connector slightly, gently apply pressure to the STG.
4. If the STG enters the terminal without compressing, replace the terminal.

Animation of terminal that passes STG test
Animation of terminal that fails STG test
Automatic Wire Stripper

WARNING:
- Always wear approved eye protection
- NOT insulated. Plastic-dipped or slip-on plastic handles are NOT intended for protection against electrical shock.
- Never use on or near live electrical circuits.

J-35615 (11062 or 11063) Automatic Wire Stripper

Use
The following procedure describes how to use the automatic wire stripper to remove insulation from 8-22 or 16-26 AWG wire without nicking or fraying.

1. Choose and install the correct stripper die for the wire gauge you are repairing.
2. Adjust the wire stop to the desired stripping length. The recommended length for J-47003 Solder Sleeves is approximately 10mm (0.4 inch).
3. With the open side of the jaws toward you (wire stop to the right), place the wire in the appropriate size stripping hole with the end touching the wire stop. Refer to the blade for AWG and mm size markings.
4. Squeeze the handles together to strip the wire. Release pressure from the handles and remove the wire.

J-47003-10 (11075, use with 11062) or J-47003-12 (11074, use with 11063) Die

Flameless Heat Gun Kit, and Solder Sleeve Connectors

428-73310

The TH 310 is a portable industrial heat tool that provides a high-volume flameless heat for installing solder sleeves. Reflector attachment is included and required for proper installation of solder sleeves. Fuel Type: Standard Butane Fuel (not included).

J-48817-9001, 9002, 9003, 9004, 9005 Solder Sleeve Connectors

CAUTION: Do not use an electric type soldering tool/iron. An electric type soldering tool may generate a current that may damage vehicle control units.

Use
Refer to NTB03-078 for proper usage of Flameless Heat Gun and Essential Tool J-48817 Solder Sleeve Connectors.

J-48817-SSLV-KIT
Kit containing all five sizes of solder sleeves (25 pieces of each size).
Circuit Repair

Wire gauge is used to determine the size that needs to be repaired.

J-48817-WGUAGE

Accurately measures the outside diameter of the wire to determine the wire gage. Replacement circuit must be the same wire gage. Do not strip insulation, measurement is the outside diameter of the insulation.

Wire strippers are used to remove the protective insulation.

J-48817-CTT-L

Large, Medium, and Small, Corrugated Tubing Installation Tools

The kit contains samples of the three recommended sizes of corrugated tubing. Please refer to Techmate.com to order the required roll.

When repairing a wire bundle that has been damaged it works best to stagger the solder sleeves as shown.

For more information, refer to this video.
Aluminum Wiring

⚠️ **CAUTION:** Crimp Repair Only! Do not use solder. Use J-48817-8 crimping tool only

**CAUTION:** Aluminum is susceptible to cross contamination. Do not use the crimping pliers on copper components.

### Copper vs Aluminum Wire Reference Chart

<table>
<thead>
<tr>
<th>Size mm²</th>
<th>Copper Wire</th>
<th>Aluminum Splice</th>
<th>Shrink Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>1.6 J-48817-801</td>
<td>1.8 J-48817-803</td>
<td></td>
</tr>
<tr>
<td>0.85</td>
<td>1.8 J-48817-801</td>
<td>1.8 J-48817-803</td>
<td></td>
</tr>
<tr>
<td>1.25</td>
<td>2.1 J-48817-801</td>
<td>1.8 J-48817-803</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2.6 J-48817-802</td>
<td>2.5 J-48817-804</td>
<td></td>
</tr>
</tbody>
</table>

### J-48817-8 Crimping Plier Usage

<table>
<thead>
<tr>
<th>Size mm²</th>
<th>Outer Diameter STD mm</th>
<th>Crimping Pliers For Aluminum Wire Repair Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
<td>1.4</td>
<td>Tool Gap Use: 1.5</td>
</tr>
<tr>
<td>1.25</td>
<td>1.8</td>
<td>Tool Gap Use: 1.5</td>
</tr>
<tr>
<td>1.5</td>
<td>1.85</td>
<td>Tool Gap Use: 1.5</td>
</tr>
<tr>
<td>2.5</td>
<td>2.8</td>
<td>Tool Gap Use: 2.0</td>
</tr>
</tbody>
</table>

### J-48817 Aluminum Splices (Aluminum Use Only)

- J-48817-801
- J-48817-802
- J-48817-803
- J-48817-804

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**Harness Repair Kit Suggestion Form**

- Use the [Tools and Equipment Suggestion Form](#) to make suggestions about how to improve the content of this kit.
- Replacement parts for this kit are available through Tech-Mate. To place an order, please call 1-800-662-2001 or visit [www.nissantechmate.com](http://www.nissantechmate.com).
- Many of the connectors required for Nissan and Infiniti vehicle repairs are in this kit. Additional parts may be available even though they are not included in this kit.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) in the small hole between the retainer and the connector with the long side toward the retainer.

2. Use the RRT as a lever to gently lift the end of the retainer out of the connector. Pull the retainer outward until it stops and fold it away from the wires.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.  
   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) in the small hole between the retainer and the connector with the long side toward the retainer.

2. Use the RRT as a lever to gently lift the end of the retainer out of the connector. Pull the retainer outward until it stops and fold it away from the wires.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.

   *NOTE: Locking tab is part of connector.*

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) in the small hole between the retainer and the connector with the long side toward the retainer.

2. Use the RRT as a lever to gently lift the end of the retainer out of the connector. Pull the retainer outward until it stops and fold it away from the wires.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) in the small hole between the retainer and the connector with the long side toward the retainer.

2. Use the RRT as a lever to gently lift the end of the retainer out of the connector. Pull the retainer outward until it stops and fold it away from the wires.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
# A FAMILY (159)

## RETAINER REMOVAL METHOD

1. Place the RRT (01A) in the small hole between the retainer and the connector with the long side toward the retainer.

2. Use the RRT as a lever to gently lift the end of the retainer out of the connector. Pull the retainer outward until it stops and fold it away from the wires.

## TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.

   *NOTE: Locking tab is part of connector.*

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Place the RRT (01A) in the small hole between the retainer and the connector with the long side toward the retainer.

2. Use the RRT as a lever to gently lift the end of the retainer out of the connector. Pull the retainer outward until it stops and fold it away from the wires.

TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.

   NOTE: Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Place the RRT (01A) in the small hole between the retainer and the connector with the long side toward the retainer.

2. Use the RRT as a lever to gently lift the end of the retainer out of the connector. Pull the retainer outward until it stops and fold it away from the wires.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**AFZ FAMILY (160)**

**CONNECTOR ILLUSTRATION**

**BOSCH NUMBER**
J-48817-160

**CONNECTOR TYPE**
AFZ04FB

**TRAY**
9

**SERVICE MANUAL SYMBOL**

**TERMINAL ILLUSTRATION**

**BOSCH NUMBER**
J-48817-236

**TERMINAL TYPE**
AF

**TRAY**
10

**STG**
J-48817-4

**SOLDER SLEEVE CONNECTORS**

**J-48817-9002**

---

**RETAINER REMOVAL METHOD**

1. Place the RRT (11A) at the bottom edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

---

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
1. Place the RRT (04A) in each slot as shown.

2. Push the RRT to release the retainer.

1. Place the TRT (06A) into the connector as shown.

2. Push on the TRT to release the retainer and pull the terminal out.
**AMP FAMILY (115)**

---

**CONNECTOR ILLUSTRATION**

**BOSCH NUMBER**
J-48817-115

**CONNECTOR TYPE**
98238N6F
AMP B

**TRAY**
2

**SERVICE MANUAL SYMBOL**

**TERMINAL ILLUSTRATION**

**BOSCH NUMBER**
J-48817-211

**TERMINAL TYPE**
98198W6TSN-F-M

**TRAY**
5

**STG**

---

**RRT 07A**

**TRT 09A**

**SOLDER SLEEVE CONNECTORS**
J-48817-9002

---

**RETAINER REMOVAL METHOD**

1. Slide the RRT (07A) between the retainer and the connector face.

2. Use the RRT to gently slide the retainer sideways.

---

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of terminal.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
AMP FAMILY (123)

**RETAINER REMOVAL METHOD**

1. Slide the RRT (11A) into the hole above the left terminal.

2. Use the RRT as a lever to gently lift the retainer until it releases from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) into the slot in the retainer. Be sure that the TRT contacts the locking tab.
   
   **NOTE:** Locking tab is part of terminal.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**AMP FAMILY (199)**

### RETAINER REMOVAL METHOD

1. Slide the RRT (07A) between the retainer and the connector face.

2. Use the RRT to gently slide the retainer sideways.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) into the slot on the side of the connector. Be sure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of terminal.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
1. Slide the RRT (04A) between the retainer and the connector.

2. Use the RRT as a lever to gently lift the retainer until it releases from the connector.

1. Insert the TRT (01A) into the terminal, slide the removal tool under the locking tab.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
AMP FAMILY (1119)

RETAINER REMOVAL METHOD

1. Slide the RRT (04A) between the retainer and the connector.

2. Use the RRT as a lever to gently pry the retainer to the release position.

TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) into the terminal, slide the removal tool under the locking tab.

2. Push the TRT all the way in and pull the terminal out.
1. Slide the RRT (03A) into connector.

2. Pull out the retainer.

1. Insert TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab. Slowly pull the wire out.
**RETAINER REMOVAL METHOD**

1. Slide the RRT (04A) as shown into connector.

2. Pull out the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-25) as shown until it contacts the locking tab.

2. Release the locking tab. Slowly pull the wire out.
1. Check connector's position. Slide the RRT (01A) between the retainer and connector.

2. Use the RRT as a lever to gently pry the retainer to remove.

NOTE: Retainer must be removed.

1. Insert TRT (J-48817-25) into cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Check connector’s position. Slide the RRT (09A) between the retainer and connector.

2. Use the RRT as a lever to gently pry the retainer over.

---

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-29) into cavity angled part of the tool towards the terminal.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
AMP FAMILY (1201)

**RETAINER REMOVAL METHOD**

1. Check connector’s position. Slide the RRT (09A) between the retainer and connector.

2. Use the RRT as a lever to gently pry the retainer over.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-29) into cavity angled part of the tool towards the terminal.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.

APEX FAMILY (1108)

**RETAINER REMOVAL METHOD**

1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
AMP FAMILY (1201)

**RETAINER REMOVAL METHOD**
1. Check connector’s position. Slide the RRT (09A) between the retainer and connector.

2. Use the RRT as a lever to gently pry the retainer over.

**TERMINAL REMOVAL METHOD**
1. Insert TRT (J-48817-29) into cavity angled part of the tool towards the terminal.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.

APEX FAMILY (1108)

**RETAINER REMOVAL METHOD**
1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

**TERMINAL REMOVAL METHOD**
1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
RETAILER REMOVAL METHOD

1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
**CONNECTOR ILLUSTRATION**

**BOSCH NUMBER**
J-48817-1115

**CONNECTOR TYPE**
54200608

**TRAY**
17

**TERMINAL ILLUSTRATION**

**BOSCH NUMBER**
J-48817-263

**TERMINAL TYPE**
54001803

**TRAY**
18

**STG**

**SOLDER SLEEVE CONNECTORS**

**J-48817-9002**

---

**RETAINER REMOVAL METHOD**

1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.
1. Insert the TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and then pull the wire out slowly.

1. Slide the RRT (03A) into connector above the retainer.

2. Pull the RRT to open the retainer.
1. Place the RRT (01A) in the slot near the center of the retainer.

2. Use the RRT as a lever to gently lift the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal.

   **NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
1. Insert the TRT (06A) into the terminal, slide the removal tools under the locking tab.

2. Push the tools all the way in and remove the wires.
TERMINAL REMOVAL METHOD

1. Insert the TRT (06A) into the terminal, slide the removal tools under the locking tab.

2. Push the tools all the way in and remove the wires.
1. Place the RRT (01A) under the retainer.

2. Use the RRT as a lever to gently lift the retainer. Fold the retainer away from the wires.

**TERMINAL REMOVAL METHOD**

1. Insert the two TRTs (06A) straight into the slots on the face of the connector above and below the terminal. Be sure that the two TRTs contact the locking tabs. **NOTE: Locking tabs are part of terminal.**

2. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
1. Place the RRT (01A) under the locking tab on one side of the connector.

2. Use the RRT as a lever to gently lift the retainer locking tab. Repeat the process on the other side of the connector. Remove the retainer.

TERMINAL REMOVAL METHOD

1. Insert the two TRTs (06A) straight into the slots on the face of the connector above and below the terminal. Be sure that the two TRTs contact the locking tabs.

NOTE: Locking tabs are part of terminal.

2. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) under the retainer.

2. Use the RRT as a lever to gently lift the retainer. Fold the retainer away from the wires.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT 01A directly above the terminal with the long side of the TRT touching the terminal.
   
   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
1. Place the RRT (04A) under the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (12A) with the long edge of the tool to the outside of the connector, straight into the slots on the face of the connector on both sides of the terminal.

**NOTE:** Locking tabs are part of terminal.

2. Press the TRT into the slots to release the locking tabs and then pull the wire out slowly.
### Retainer Removal Method

1. Place the RRT (04A) under the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

### Terminal Removal Method

1. Insert the TRT (12A) with the long edge of the tool to the outside of the connector, straight into the slots on the face of the connector on both sides of the terminal. **NOTE:** Locking tabs are part of terminal.

2. Press the TRT into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Insert RRT (01A) in the latch as shown.

2. Pull the tool up.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (11A) as shown, the connector lock will move up releasing the terminal.

2. Pull on the terminal to remove.
1. Insert the RRT (01A) into the cavity.

2. Use the RRT as a lever to gently pry the retainer to release from the connector.

1. Insert TRT (13A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.
   
   **NOTE:** Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

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**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal. **NOTE:** Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

NOTE: Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT upward slightly to release the locking tab and then pull the wire out slowly.
1. Release the cover by pressing the locks.

2. Use the RRT (01A) as a lever to gently release the top of the yellow retainer. Repeat operation on the opposite side of the retainer. Do not remove the retainer from the connector. On the opposite side of the connector, place the RRT (01A) in between the connector and yellow retainer. Use the RRT as a lever to gently release the retainer. Remove the retainer from the connector.

1. For smaller terminals, position the TRT (13A) into the lock cavity. Move the TRT downward slightly to release the locking tab. Pull the wire back to remove the terminal while the TRT is inserted.

**NOTE:** Locking tab is part of connector.

2. For the larger terminals, insert the two TRTs (06A) straight into the slots on the face of the connector above and below the terminal. Be sure that the two TRTs contact the locking tabs.

**NOTE:** Locking tab is part of terminal.
**ECM FAMILY (BOSCH)**

### RETAINER REMOVAL METHOD

1. Insert RRT (J-48817-34) into the slot.

2. Use the (J-48817-34) to gently slide the retainer sideways.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (J-48817-34) as shown.
   The connector lock will move up releasing the terminal.

   **NOTE:** All three wire sizes are removed in the same manner.

2. Pull on the terminal to remove.
   **NOTE:** Locking tab is part of terminal.
ECM FAMILY (Molex)

RETAINER REMOVAL METHOD

1. Cut and remove the tie strap from rear of connector. Unlock both side locks using RRT (01A). While releasing the locks push and remove the cover.

2. Release secondary retainer using RRT (01A).

3. Pull the retainer up to the position shown.

TERMINAL REMOVAL METHOD

1. Position the TRT (07A) in the lock cavity. Insert the TRT to release the lock terminal. Pull the wire back to remove the terminal while the TRT is inserted.

   NOTE: Do not lift the pick tool to avoid lock damage.

   NOTE: Locking tab is part of terminal.
ECM FAMILY (Yazaki)

**RETAINER REMOVAL METHOD**

1. Cut and remove the tie strap from rear of connector. Unlock each side of the rear cover using RRT (01A). Apply pressure while releasing the locks push and remove the cover.

2. To release secondary retainer, lift the lower lock while pinching the secondary retainer to release.

3. Pull retainer out firmly.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (07A) 1mm between terminal and lock. Pull the wire back to remove the terminal.

   **NOTE:** Do not lift the pick tool to avoid lock damage.

   **NOTE:** Locking tab is part of connector.

After repair, align secondary retainer according to terminal sizes, press lock on both sides and push in firmly until reaching bottom of connector and release.
1. Slide the RRT (04A) into connector.

2. Pull out the retainer.

1. Insert TRT (J-47003-14) into the connector as shown.

2. Push the TRT all the way in to release the lock. Slowly pull the terminal out.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) under the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (12A) with the long edge of the tool to the outside of the connector, straight into the slots on the face of the connector on both sides of the terminal.

   **NOTE:** Locking tabs are part of terminal.

2. Press the TRT into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) under the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer and remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-47003-14) as shown straight into the slots above or below the terminal.

2. Press in to release the locking tabs and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot as shown.

2. Pry the retainer to release it and remove the retainer.

**TERMINAL REMOVAL METHOD**

1. Place the TRT (06A) into the connector as shown.

2. Push in on the TRT to release the retainer and pull the terminal out.
1. Place the RRT (04A) in the slot as shown.

2. Pry the retainer to release it and remove the retainer.

1. Place the TRT (06A) into the connector as shown.

2. Push in on the TRT to release the retainer and pull the terminal out.
1. Insert TRT (J-48817-26) as shown straight into the slots on the front face of the connector above and below the terminal. Verify that the TRT contacts the locking tabs.

2. Push the TRT into the slots to release the locking tabs and pull the wire out slowly.
TERMINAL REMOVAL METHOD

1. Insert TRT (J-48817-26) as shown straight into the slots on the front face of the connector above and below the terminal. Verify that the TRT contacts the locking tabs.

2. Push the TRT into the slots to release the locking tabs and pull the wire out slowly.

TERMINAL REMOVAL METHOD

1. Insert TRT (J-48817-26) as shown straight into the slots on the front face of the connector above and below the terminal. Verify that the TRT contacts the locking tabs.

2. Push the TRT into the slots to release the locking tabs and pull the wire out slowly.

TERMINAL REMOVAL METHOD

1. Insert TRT (J-48817-26) as shown straight into the slots on the front face of the connector above and below the terminal. Verify that the TRT contacts the locking tabs.

2. Push the TRT into the slots to release the locking tabs and pull the wire out slowly.
**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-26) as shown straight into the slots on the front face of the connector above and below the terminal. Verify that the TRT contacts the locking tabs.

2. Push the TRT into the slots to release the locking tabs and pull the wire out slowly.
1. Insert TRT (J-48817-26) as shown straight into the slots on the front face of the connector above and below the terminal. Verify that the TRT contacts the locking tabs.

2. Push the TRT into the slots to release the locking tabs and pull the wire out slowly.
1. Insert RRT (01A) as shown.

2. Pull out the yellow center retainer.

1. Insert TRT (01A) as shown.

2. Push to release the cavity lock and pull the terminal out.
**RETAINER REMOVAL METHOD**

1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

2. Move the TRT slightly downward to release the locking tab and then pull the wire out slowly.

NOTE: Locking tab is part of connector.
**RETAINER REMOVAL METHOD**

1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.
   
   **NOTE:** Locking tab is part of connector.

2. Move the TRT slightly upward to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT slightly downward to release the locking tab and then pull the wire out slowly.
1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

**NOTE:** Locking tab is part of connector.

2. Move the TRT slightly downward to release the locking tab and then pull the wire out slowly.
**HS FAMILY (125)**

### CONNECTOR ILLUSTRATION

**BOSCH NUMBER**

J-48817-125

**CONNECTOR TYPE**

11020W9A03-GR

**TRAY**

3

**SERVICE MANUAL SYMBOL**

![Service Manual Symbol]

**TERMINAL ILLUSTRATION**

**BOSCH NUMBER**

J-48817-207

**TERMINAL TYPE**

WTS090F-M

**TRAY**

5

**STG**

RRT 01A

TRT 07A

**SOLDER SLEEVE CONNECTORS**

J-48817-9002

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**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from connector.

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**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and pull the wire out slowly.
1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Move the TRT slightly upward to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal. **NOTE:** Locking tab is part of connector.

2. Release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT slightly downward to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.  
   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Release the locking tab and pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from connector.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from connector.

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**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal. **NOTE:** Locking tab is part of connector.

2. Release the locking tab and pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal. 

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and pull the wire out slowly.
**HS FAMILY (1174)**

### Connector Illustration

**Bosch Number**

- J-48817-1174

**Connector Type**

- HS02FB-4V

**Tray**

- 22

**Terminal Illustration**

**Bosch Number**

- J-48817-207

**Terminal Type**

- HS

**Tray**

- 14

**STG**

- J-48817-30

**Solder Sleeve Connectors**

- J-48817-9002

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**Terminal Removal Method**

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

**NOTE:** Locking tab is part of connector.

2. Move the TRT slightly upward to release the locking tab and then pull the wire out slowly.

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**Retainer Removal Method**

1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.
1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

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1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

**NOTE:** Locking tab is part of connector.

2. Move the TRT slightly upward to release the locking tab and then pull the wire out slowly.
1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Move the TRT slightly upward to release the locking tab and then pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Place the RRT (02A) in the small hole in the retainer.

2. Use the RRT as a lever to gently lift the retainer.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) straight into the slot on the face of the connector near the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT slightly upward to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) under the retainer.

2. Use the RRT as a lever to gently lift the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) as shown, the connector lock will move up and release the terminal.

2. Pull the wire out slowly.
1. Insert TRT (11A) into the slot in retainer.

2. Move the TRT downward to release the locking tab and pull the wire out slowly.
1. Insert TRT (11A) into the slot in retainer.

2. Move the TRT downward to release the locking tab and pull the wire out slowly.
1. Check connector’s position. Slide the RRT (04A) between the retainer and connector.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**RETAILER REMOVAL METHOD**

1. Check connector's position. Slide the RRT (04A) between the retainer and connector.

![Connector Image]

**TERMINAL REMOVAL METHOD**

1. Insert TRT (13A) into the cavity.

![Terminal Image]

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.

![Terminal Image]
1. Insert RRT (09A) in the latch as shown.

2. Pull the tool up to unlatch.

TERMINAL REMOVAL METHOD

1. Insert TRT (07A) as shown.

2. The connector lock will move up releasing the terminal. Pull on the terminal to remove.
1. Slide the RRT (06A) between the retainer and the connector.

2. Use the RRT as to release lock.

1. Insert the TRT (05A) into the cavity, slide the removal tool under the locking tab.

2. Push the tool all the way in and remove the wires.
**TERMINAL REMOVAL METHOD**

1. Insert two TRT (06A) as shown straight into the slots above and below the terminal.

2. Press in to release the locking tabs. Slowly pull the wire out.
TERMINAL REMOVAL METHOD

1. Insert two TRT (06A) as shown straight into the slots above and below the terminal.

2. Press in to release the locking tabs. Slowly pull the wire out.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

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**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
**Kostal FAMILY (1132)**

**CONNECTOR ILLUSTRATION**

- BOSCH NUMBER: J-48817-1132
- CONNECTOR TYPE: 805-121-501F
- TRAY: 16-INF
- SERVICE MANUAL SYMBOL

**TERMINAL ILLUSTRATION**

- BOSCH NUMBER: J-48817-281
- TERMINAL TYPE: 32124734120
- TRAY: 18-INF
- STG

**SOLDER SLEEVE CONNECTORS**

- J-48817-9002

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**RETAINER REMOVAL METHOD**

1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

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**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
RETAINER REMOVAL METHOD
1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

TERMINAL REMOVAL METHOD
1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
1. Insert the RRT (04A) as shown between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Using the the RRT slide the retainer to the wire side of the connector. Do not remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert TRT (J-48817-25) as shown in slot just above terminal.

2. Push down to release the terminal and pull the wire out.
**RETAINER REMOVAL METHOD**

1. Insert RRT (04A) as shown.

2. Pull the retainer up.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (04A) in the front of the connector as shown.

2. Open the cavity lock and pullout the terminal.
**TERMINAL REMOVAL METHOD**

1. Insert TRT (02A) as shown.

2. Open the cavity lock and pullout the terminal.
1. Insert TRT (01A) as shown.

2. Open the cavity lock and pullout the terminal.
RETAINER REMOVAL METHOD

1. Slide the RRT (04A) between the retainer and the connector.

2. Use the RRT as a lever to gently lift the retainer until it releases from the connector.

TERMINAL REMOVAL METHOD

1. Insert TRT (J-47003-15) all the way in as shown.

2. Push the tool in and remove the wire.
1. Insert the RRT (01A) into the cavity.

2. Use the RRT as a lever to gently pry the retainer to release from the connector.

1. Insert TRT (13A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (01A) into the cavity.

2. Use the RRT as a lever to gently pry the retainer to release from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (13A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot on the connector.

2. Push RRT to open retainer.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) as shown. Ensure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Move the tool downward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (09A) in the small hole behind the retainer.

2. Press the RRT gently until the retainer releases from the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) as shown. Ensure that the TRT contacts the locking tab.  
   **NOTE:** Locking tab is part of connector.

2. Move the tool downward slightly to release the locking tab and then pull the wire out slowly.
1. Place the RRT (09A) in the small hole behind the retainer.

2. Press the RRT gently until the retainer releases from the connector. Do not remove the retainer from the connector.

---

1. Insert the TRT (09A) as shown. Ensure that the TRT contacts the locking tab.

**NOTE:** Locking tab is part of connector.

2. Move the tool downward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (09A) in the small hole behind the retainer.

2. Press the RRT gently until the retainer releases from the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) as shown. Ensure that the TRT contacts the locking tab. **NOTE: Locking tab is part of connector.**

2. Move the tool downward slightly to release the locking tab and then pull the wire out slowly.
## CONNECTOR ILLUSTRATION

<table>
<thead>
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<th>BOSCH NUMBER</th>
<th>CONNECTOR TYPE</th>
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<tr>
<td>TRAY</td>
<td>J-48817-135</td>
<td>3</td>
</tr>
</tbody>
</table>

## SERVICE MANUAL SYMBOL

| 1 | 2 | 3 | 4 | 5 | 6 |

## TERMINAL ILLUSTRATION

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<th>TERMINAL TYPE</th>
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<tbody>
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<td>J-48817-219</td>
<td>6</td>
</tr>
</tbody>
</table>

## STG

| N/A |

## RRT 04A

| RRT 04A |

## TRT 04A

| TRT 04A |

## SOLDER SLEEVE CONNECTORS

| J-48817-9003 |

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### RETAINER REMOVAL METHOD

1. Place the RRT (04A) in the slot on the connector.

2. Push RRT to open retainer.

---

### TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) as shown. Ensure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Move the tool downward slightly to release the locking tab and then pull the wire out slowly.


**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot on the connector.

2. Push RRT to open retainer.

---

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) as shown. Ensure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Move the tool downward slightly to release the locking tab and then pull the wire out slowly.
1. Place the RRT (09A) in the small hole behind the retainer.

2. Press the RRT gently until the retainer releases from the connector. Do not remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) as shown. Ensure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Move the tool downward slightly to release the locking tab and then pull the wire out slowly.
1. Place the RRT (09A) in the small hole behind the retainer.

2. Press the RRT gently until the retainer releases from the connector. Do not remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) as shown. Ensure that the TRT contacts the locking tab.

   NOTE: Locking tab is part of connector.

2. Move the tool downward slightly to release the locking tab and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Place the RRT (04A) into the connector lock area and insert it into the retainer slot.

2. Push the RRT towards the rear of the connector to release the lock. The retainer is unlocked when it moves out. Do not remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (04A) straight into the slot on the face of the connector above the terminal.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
1. Insert TRT 07A as shown, the connector lock will move up releasing the terminal.

2. Pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

---

**TERMINAL REMOVAL METHOD**

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   **NOTE:** Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   **NOTE:** Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   NOTE: Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   **NOTE:** Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   *NOTE: Locking tabs are part of connector.*

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   **NOTE:** Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) into the retainer.

2. Use the RRT to gently remove the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-33) as shown.

2. Push the TRT all the way into release the locking tab and pull the wire out slowly.
## RETAINER REMOVAL METHOD

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

## TERMINAL REMOVAL METHOD

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   **NOTE:** Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

NOTE: Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.

RETAINER REMOVAL METHOD

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) into the retainer.

2. Use the RRT to gently remove the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-33) as shown.

2. Push the TRT all the way into release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) into the retainer.

2. Use the RRT to gently remove the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (J-48817-33) as shown.

2. Push the TRT all the way into release the locking tab and pull the wire out slowly.
1. Place the RRT (01A) into the retainer.

2. Use the RRT to gently remove the retainer. Do not remove the retainer from the connector.

1. Insert TRT (J-48817-33) as shown.

2. Push the TRT all the way into release the locking tab and pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Place the RRT (01A) into the retainer.

2. Use the RRT to gently remove the retainer. Do not remove the retainer from the connector.

### TERMINAL REMOVAL METHOD

1. Insert TRT (J-48817-33) as shown.

2. Push the TRT all the way into release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   **NOTE:** Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

   NOTE: Locking tabs are part of the connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) into the retainer.

2. Use the RRT to gently remove the retainer.

---

**TERMINAL REMOVAL METHOD**

1. Insert TRT (33A) as shown

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

**NOTE:** Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face.

NOTE: Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Position the two TRTs (10A) long side down and align with the slots on both sides of the terminal opening in the connector face. 

   **NOTE:** Locking tabs are part of connector.

2. Slide the TRTs into the slots in the connector and be sure that they contact the locking tabs. Press the two TRTs into the slots to release the locking tabs and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT 01A directly above the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) in the slot between the retainer and the connector.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT 11A directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

### TERMINAL REMOVAL METHOD

1. Insert the TRT 01A directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**TERMINAL REMOVAL METHOD**

1. Insert the TRT 11A directly above the terminal with the long side of the TRT touching the terminal.

   *NOTE: Locking tab is part of connector.*

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.

**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) in the slot between the retainer and the connector.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.
1. Insert RRT (J-47003-11) into the retainer middle cavity.

2. Pull the RRT outward to remove the retainer.

1. Insert the TRT (11A) into slot just above terminal.

2. Move the TRT downward to release the lock and then pull the wire out slowly.
1. Insert RRT (J-47003-11) into the retainer middle cavity.

2. Pull the RRT outward to remove the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) into slot just above terminal.

2. Move the TRT downward to release the lock and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Insert RRT (J-47003-11) into the retainer middle cavity.

2. Pull the RRT outward to remove the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) into slot just above terminal.

2. Move the TRT downward to release the lock and then pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Insert RRT (J-47003-11) into the retainer middle cavity.

![Image of retainer insertion](image1.png)

2. Pull the RRT outward to remove the retainer.

![Image of retainer removal](image2.png)

### TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) into slot just above terminal.

![Image of terminal insertion](image3.png)

2. Move the TRT downward to release the lock and then pull the wire out slowly.

![Image of terminal removal](image4.png)
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) against the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT 01A directly above the terminal with the long side of the TRT touching the terminal.  
   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
1. Place the RRT (01A) in the slot between the retainer and the connector.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT 01A directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Insert (RRT J-47003-11) into the retainer middle cavity.

2. Pull the RRT outward to remove the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) into slot just above terminal.

2. Move the TRT downward to release the lock and then pull the wire out slowly.
1. Place the RRT (01A) in the slot between the retainer and the connector.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A for 104 and 121, 11A for 120) directly above the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) in the slot between the retainer and the connector.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A for 104 and 121, 11A for 120) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) in the slot between the retainer and the connector.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A for 104 and 121, 11A for 120) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
1. Place the RRT (04A) in the slot on the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

NOTE: Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) straight into the connector along the visible side of the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) directly above the terminal with the long side of the TRT touching the terminal. **NOTE:** Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
## RETAINER REMOVAL METHOD

1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

## TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) straight into the connector along the visible side of the terminal with the long side of the TRT touching the terminal. **NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
RS FAMILY (119)

**CONNECTOR ILLUSTRATION**

**BOSCH NUMBER**
J-48817-119

**CONNECTOR TYPE**
RS04FGY-PR

**TRAY**
2

**SERVICE MANUAL SYMBOL**

**TERMINAL ILLUSTRATION**

**BOSCH NUMBER**
J-48817-213

**TERMINAL TYPE**
RSF-L-SWSN

**TRAY**
6

**STG**

**SOLDER SLEEVE CONNECTORS**
J-48817-9004

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**RETAINER REMOVAL METHOD**

1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

---

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the connector along the visible side of the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
1. Place the RRT (04A) in the slot on the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot on the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

1. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the connector along the visible side of the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

---

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (09A) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (09A) directly above the terminal with the long side of the TRT touching the terminal.
   
   NOTE: Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
1. Place the RRT (04A) in the slot on the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (03A) in the slot between the retainer and the connector with the barb toward the retainer. When fully inserted, the barb will engage a hole in the retainer.

2. Pull the RRT straight away from the connector. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot on the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
### Retainer Removal Method

1. Place the RRT (04A) in the slot on the side of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

### Terminal Removal Method

1. Insert the TRT (01A) directly above the terminal with the long side of the TRT touching the terminal.

   **NOTE:** Locking tab is part of connector.

2. Release the locking tab and then pull the wire out slowly.
1. Check connector’s position. Place the RRT (01A) in the slot at the edge of the retainer. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

1. Insert TRT (J-48817-35) as shown straight into the slots.

2. Pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot as shown, release the retainer.

2. Flip the retainer to release it from both sides and remove the retainer.

**TERMINAL REMOVAL METHOD**

1. Place the TRT (01A) into the connector as shown.

2. Pry down on the TRT to raise and release the retainer and pull the terminal out.
**RETAINER REMOVAL METHOD**

1. Place the RRT (04A) in the slot as shown, release the retainer.

2. Flip the retainer to release it from both sides and remove the retainer.

---

**TERMINAL REMOVAL METHOD**

1. Place the TRT (01A) into the connector as shown.

2. Pry down on the TRT to raise and release the retainer and pull the terminal out.
SAZ FAMILY (1154)

**RETAINER REMOVAL METHOD**

1. Slide the RRT (04A) between the retainer and connector.

2. Use the RRT as a lever to gently pry the retainer to release from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (13A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**SAZ FAMILY (1172)**

### RETAINER REMOVAL METHOD

1. Slide the RRT (04A) between the retainer and connector.

2. Use the RRT as a lever to gently pry the retainer to release from the connector.

### TERMINAL REMOVAL METHOD

1. Insert TRT (13A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**SAZ FAMILY (1192)**

**CONNECTOR ILLUSTRATION**

**BOSCH NUMBER**
J-48817-1192

**CONNECTOR TYPE**
SAZ08FGY

**TRAY**
24

**SERVICE MANUAL SYMBOL**

**TERMINAL ILLUSTRATION**

**BOSCH NUMBER**
J-48817-297

**TERMINAL TYPE**
09868WGT-SN-F-M

**TRAY**
19

**STG**
J-48817-5

**SOLDER SLEEVE CONNECTORS**
J-48817-9002

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**RETAINER REMOVAL METHOD**

1. Slide the RRT (04A) between the retainer and connector.

2. Use the RRT as a lever to gently pry the retainer to release from the connector.

---

**TERMINAL REMOVAL METHOD**

1. Insert TRT (13A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
1. Place the RRT (01A) in the slot next to the terminal cavities on the wire side of the connector. Slide the RRT along the inboard surface of the slot until it contacts the locking tab of the retainer.

2. Use the RRT as a lever to gently lift the retainer locking tab. Repeat the process on the other end of the connector and remove the retainer from the terminal side of the connector.

TERMINAL REMOVAL METHOD

1. Place the TRT (11A) against the visible side of the terminal with the long side of the TRT touching the terminal.

   NOTE: Locking tab is part of connector.

2. Press the TRT against the locking tab to release it and then pull the wire out slowly.
1. Place the RRT (01A) in the slot next to the terminal cavities on the wire side of the connector. Slide the RRT along the inboard surface of the slot until it contacts the locking tab of the retainer.

2. Use the RRT as a lever to gently lift the retainer locking tab. Repeat the process on the other end of the connector and remove the retainer from the terminal side of the connector.

1. Place the TRT (11A) against the visible side of the terminal with the long side of the TRT touching the terminal. **NOTE:** Locking tab is part of connector.

2. Press the TRT against the locking tab to release it and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (09A) in the slot at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer. Remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (01A) as shown.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (01A) between the retainer and the connector.

2. Use the RRT as a lever to gently pry the retainer to release from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (06A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (01A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the retainer to release from the connector.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (06A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

2. Press the TRT into the hole to release the locking tab and pull the wire out slowly.
1. Place the RRT (07A) under the edge of the retainer. **CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Use the RRT as a lever to gently unlock the edge of the retainer from the connector. Repeat the process to completely release the retainer.

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### RETAINER REMOVAL METHOD

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal. **NOTE:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Place the RRT (07A) under the edge of the retainer.

**CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Use the RRT as a lever to gently unlock the edge of the retainer from the connector. Repeat the process to completely release the retainer.

TERMINAL REMOVAL METHOD

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

**NOTE:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
1. Place the RRT (07A) under the edge of the retainer.

**CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Use the RRT as a lever to gently unlock the edge of the retainer from the connector. Repeat the process to completely release the retainer.

---

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

**NOTE:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
1. Place the RRT (07A) under the edge of the retainer.

CAUTION: Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Use the RRT as a lever to gently unlock the edge of the retainer from the connector. Repeat the process to completely release the retainer.

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

NOTE: Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
1. Place the RRT (07A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

**CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

**Note:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Place the RRT (07A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

**CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

**Note:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Place the RRT (07A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

**CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

**Note:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Place the RRT (07A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

**CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

**Note:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
1. Place the RRT (07A) under the edge of the retainer.

**CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Use the RRT as a lever to gently unlock the edge of the retainer from the connector. Repeat the process to completely release the retainer.

**RETAINER REMOVAL METHOD**

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

**NOTE:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.

**TERMINAL REMOVAL METHOD**
## Connector Illustration

**TH FAMILY (1196)**

**Bosch Number**

J-48817-1196

**Connector Type**

NH10MW-CS10

**Tray**

25

**Service Manual Symbol**

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## Terminal Illustration

**Bosch Number**

J-48817-210

J-48817-217

**Tray**

5/6

**STG**

N/A

**RRT 01A**

**TRT 01A**

**TRT 11A**

**Solder Sleeve Connectors**

J-48817-9002

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### Retainer Removal Method

1. Place the RRT (07A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

**CAUTION:** Terminals are NOT interchangeable between old and new style TH connectors. The old style connector face has one large hole and the new style has many small holes. The terminal repair kit contains only the new style connectors and terminals. If an old style connector or terminal requires service, the connector and terminals must be replaced with the new style.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

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### Terminal Removal Method

1. Insert the TRT (07A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal.

**Note:** Locking tab is part of connector.

2. Press the TRT into the hole to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal. Be sure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
**TK FAMILY (137)**

### RETAINER REMOVAL METHOD

1. Place the RRT (01A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal. Be sure that the TRT contacts the locking tab.  
   **NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
RETAINER REMOVAL METHOD

1. Place the RRT (01A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal. Be sure that the TRT contacts the locking tab.

   NOTE: Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal. Be sure that the TRT contacts the locking tab.

   NOTE: Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal. Be sure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
1. Place the RRT (01A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

1. Insert the TRT (11A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal. Be sure that the TRT contacts the locking tab.

**NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) between the connector and the rear edge of the retainer. Use the RRT as a lever to gently lift the rear edge of the retainer.

2. Slide the retainer toward the wire side of the connector. Do not remove the retainer from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert the TRT (11A) straight into the hole on the face of the connector near the terminal with the long side of the TRT toward the terminal. Be sure that the TRT contacts the locking tab.

   **NOTE:** Locking tab is part of connector.

2. Press the TRT into the slot to release the locking tab and then pull the wire out slowly.
1. Place the RRT (04A) on the retainer locking tab on the wire side of the connector.

2. Use the RRT to gently depress the locking tab far enough to remove it from the slot in the connector. Repeat the process on the other locking tab and remove the retainer.

1. Insert the TRT (01A) into the slot above the terminal with the long side of the TRT touching the terminal. Be sure that the TRT contacts the locking tab.

**NOTE:** Locking tab is part of connector.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
W FAMILY (1166)

**RETAINER REMOVAL METHOD**

1. Place the RRT (09A) under the retainer.

2. Use the RRT as a lever to gently lift the retainer and remove.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (06A) as shown, the connector lock will move up releasing the terminal.

2. Pull on the terminal to remove.
## TERMINAL REMOVAL METHOD

1. Insert the TRT (06A) straight into face of the connector on the outboard side of the terminal with the long side of the TRT toward the terminal.

   **NOTE:** WBS connectors are not equipped with retainers.

   **NOTE:** Locking tab is part of terminal.

2. Press the TRT into the connector to release the locking tab and then pull the wire out slowly.
TERMINAL REMOVAL METHOD

1. Insert the TRT (06A) straight into face of the connector on the outboard side of the terminal with the long side of the TRT toward the terminal.

NOTE: WBS connectors are not equipped with retainers.

NOTE: Locking tab is part of terminal.

2. Press the TRT into the connector to release the locking tab and then pull the wire out slowly.
1. Using the RRT (04A) pry up on the secondary lock (cover) and remove.

2. Using the RRT (04A) release both sides of the back lock and remove.

1. Insert the TRT (04A).

2. Move the TRT (04A) downward slightly to release the locking tab and then pull the wire out.
RETAINER REMOVAL METHOD

1. Place the RRT (11A) into the retainer slot.

2. Using the RRT (11A) pry the lock up and remove.

TERMINAL REMOVAL METHOD

1. Insert the TRT (11A) into the slot on the face of the connector below the terminal.

2. Push TRT (11A) down to release the terminal and then pull out the wire.
1. Place the RRT (04A) into the connector lock area.

2. Push the RRT (04A) towards the rear of the connector to release the lock, repeat for the other side. The retainer is unlocked when it moves out.

1. Insert the TRT (13A) straight into the slot on the face of the connector above the terminal.

2. Move the TRT (13A) up slightly to release the locking tab and then pull the wire out.
1. Place the RRT (J-47003-11) into the retainer slot and pull the retainer out.

2. Place the RRT (04A) towards the rear of the connector to release the lock, repeat for the other side.

1. Insert the TRT (01A).

2. Move the TRT (01A) downward slightly to release the locking tab and then pull the wire out.
RETAINER REMOVAL METHOD

1. Place the RRT (J-47003-11) into the retainer slot and pull the retainer out.

2. Place the RRT (04A) towards the rear of the connector to release the lock, repeat for the other side.

TERMINAL REMOVAL METHOD

1. Insert the TRT (01A).

2. Move the TRT (01A) downward slightly to release the locking tab and then pull the wire out.
**RETAINER REMOVAL METHOD**

No Retainer Supplied

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**TERMINAL REMOVAL METHOD**

1. Insert TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Place the RRT (04A) into the connector lock area and insert it into the retainer slot.

2. Push the RRT towards the rear of the connector to release the lock. The retainer is unlocked when it moves out. Do not remove the retainer from the connector.

### TERMINAL REMOVAL METHOD

1. Insert the TRT (04A) straight into the slot on the face of the connector above the terminal.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
### RETAINER REMOVAL METHOD

1. Insert RRT (01A) into both sides as shown.

2. Pull up and release lock.

### TERMINAL REMOVAL METHOD

1. Insert TRT (01A) in the front of the connector as shown.

2. Open the cavity lock and pull out the terminal.
**RETAINER REMOVAL METHOD**

1. Place the RRT (01A) under the retainer.

2. Use the RRT as a lever to gently lift the retainer.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (07A) as shown

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
**RETAINER REMOVAL METHOD**

1. Insert the RRT (01A) under the edge of the retainer and pry out.

2. Use the RRT as a lever to gently pry the retainer to release from the connector.

**TERMINAL REMOVAL METHOD**

1. Insert TRT (01A) into the cavity.

2. Push the TRT all the way in to release the locking tab and pull the wire out slowly.
1. Insert RRT (01A) as shown.

2. Pull up retainer.

1. Insert TRT (13A) in the front of the connector as shown.

2. Open the cavity lock and pullout the terminal.
**RETAINER REMOVAL METHOD**

1. Check connector’s position. Place the RRT (09A) at the edge of the retainer.

2. Use the RRT as a lever to gently lift the retainer and remove.

**TERMINAL REMOVAL METHOD**

1. Insert TRT 07A into the slot in the retainer.

2. Move the TRT downward slightly to release the locking tab and then pull the wire out slowly.
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