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Output Impedance
Noise Level
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Serial
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Rhythm Patterns
Preset Patterns
User Patterns
User Patterns

Maximum Note Storage
approx.11,200not
Max.7 Vp-p(L(MONO)(R))
Less Than -78 dBm(DIN AUDIO)((L(MONO))
Max.7 Vp-p(L(MONO),R)
Total Parts for Songs : 10,000
Song Length : Maximum 250 parts for a song
Song : 100
User Patterns : 400
Preset Patterns : 400
14 voices
16 voices
12 voices
8-1/2(8)
19(W)
70mm
24.8(Wx)24.8(D)x24.8(H)mm
750g/1 lbs 10 oz
Owner's Manual Set(Japanese) : PNo.71238145
Owner's Manual Set(English) : PNo.71238223
EURO CONVERTER PLUG ECP01-5A :PNo. 00905234
AC ADAPTOR BRC-230 BOSS :PNo. 00899090
AC ADAPTOR BRC-120 BOSS :PNo.00899089
AC ADAPTOR BRC-100 BOSS :PNo.00899078

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Deterioration in the conductive coating inside the case

The inside of the case is coated with a conductive material. If the board undergoes repeated detaching/attaching, the coating on the boss may deteriorate.

If the resistance value between the case center and the head of the boss becomes 5Ω or more, the effect of conductive coating cannot be expected. In such a case, replace the case.
**EXPLODED VIEW/分解図**

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**Screw**

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このワッシャーとナットは、#01231367 ROTARY ENCODERに含まれます。
This MG WASHER and MG NUT are included in the #01231367 ROTARY ENCODER.

このワッシャーとナットは、#01231367 POTENTIOMETERに含まれます。
This MG WASHER and MG NUT are included in the #01231367 POTENTIOMETER.
PARTS LIST

SAFETY PRECAUTION: 
*1. Replace only with parts marked with this symbol. 
*2. When ordering, please specify the following items in the order sheet. 

- The parts marked with # have safety-related characteristics. 
- Note: Consider about the natural environment carefully before disposing of the old lithium battery when you exchange to the new one.

**Note:** When ordering any parts listed in the parts list, please specify the following items in the order sheet.

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### DIODE

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### POTENTIOMETER

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### INDUCTION, COIL, FILTER

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### CRYSTAL, RESONATOR

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### CONNECTOR

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<td>71238223</td>
<td>OWNER'S MANUAL</td>
<td>ENGLISH</td>
<td></td>
</tr>
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</table>

### ACCESSORIES (STANDARD)

<table>
<thead>
<tr>
<th>品番</th>
<th>名称</th>
<th>品質</th>
<th>备考</th>
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<tbody>
<tr>
<td>00899078</td>
<td>AC ADAPTOR</td>
<td>BRC-100</td>
<td></td>
</tr>
<tr>
<td>00999089</td>
<td>AC ADAPTOR</td>
<td>BRC-120</td>
<td></td>
</tr>
<tr>
<td>00999090</td>
<td>AC ADAPTOR</td>
<td>BRC-230</td>
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<td>00999101</td>
<td>AC ADAPTOR</td>
<td>BRC-240A</td>
<td></td>
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<tr>
<td>00999234</td>
<td>EURO CONVERTER PLUG</td>
<td>ECP01-5A (PLUG FOR BRC-230)</td>
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</tr>
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</table>

### PACKING

<table>
<thead>
<tr>
<th>品番</th>
<th>名称</th>
<th>品質</th>
<th>备考</th>
</tr>
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<tbody>
<tr>
<td>01978523</td>
<td>PAD ADAPTOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>01785512</td>
<td>PAD UPPER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>01978523</td>
<td>PAD LOWER</td>
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<td></td>
</tr>
<tr>
<td>01978501</td>
<td>PACKING CASE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LOADING THE FACTORY PRESET DATA

1. Turn off the power to the DR-770.
2. While simultaneously pressing the [RESET] and [REC] buttons, turn the power on.
3. The display will show “INIT?”.
4. Press the [ENTER] button and the display will show “SURE?”.

NOTE: If initialization is not necessary do not press the ENTER button. Press the [STOP/EXIT] button. The display will show “Aborted” and the operation will enter normal mode.

5. Press the [ENTER] button again. The DR-770 is loaded the Factory preset Data and then the display will show “Done” and the operation will enter normal mode.

USER DATA SAVE AND LOAD

To save the data stored in the RAM of the mainframe (DR-770) in an external memory or load external MIDI.

Methods of transmitting and receiving data are explained below.

NOTE: If loading is executed all data stored in the RAM of the mainframe will be lost.

NOTE: If you select “ALL” and execute the Bulk Dump, the memory on the receive device will be full before the Bulk Dump is completed, not being able to receive any more data.

If this happens, change the data to be transferred to “SEQ”, “GLOBAL”, “DRMKITS”, or “1DRMKIT”, then execute the Bulk Dump again.

How to save the User Data

Connections

1. Press [MIDI] to make “MIDI” light. The DR-770 is now in MIDI mode.
2. Use [ ] | [ ] | [ ] to select “9 BULK.”

Procedure

1. Press [MIDI] to make “MIDI” light. The DR-770 is now in MIDI mode.
2. Use [ ] | [ ] | [ ] to select “9 BULK.”

 IDENTIFYING THE VERSION NUMBER

1. While simultaneously pressing the [SONG] and Numeric button [7] turn the power on. The version number will appear on the LCD display as shown below. The displayed version number is ROM (IC8 on Main Board)’s version number.

2. When pressing the Numeric button [8], the display will show “INIT?”. Then press the [ENTER] button and the display will show “SURE!”. If you want to initialize the DR-770 press the [ENTER] button again. The display will show “Done” and the operation enters normal mode. If not initializing, press the [STOP/EXIT] button. The display will show “Aborted” and the operation enters normal mode.

バージョンの確認方法

1. 同時にSONGボタンと数字ボタン [7] を押して電源を入れます。

2. 数字ボタン [8] を押すと、必ずバージョンが表示されます。

3. 数字ボタンを押すと、液晶画面にバージョンが表示されます。

4. バージョンが表示され、通常モードになります。パッドモードでない場合、バージョンを表示させると、パッドモードになります。

データのセーブとロードの方法

データベースに記憶したデータを、外部にセーブしたり、あるデータベースにデータを新しいデータベースにロードすることには、それぞれデータベースのパスワードを使用します。

以下に、データベースのセーブとロードの方法を説明します。

1. パッドモードにします。

2. バルク・ダンプを選んでバルク・ダンプを実行した場合、パッドモードでない場合、それまでに記憶されていたデータは、全て消去されます。

3. バルク・ダンプを表示に、パッドモードでない場合、それを含むデータを受信します。

4. このようなときは、転送するデータをSEQ、GLOBAL、DRMKITS、1DRMKITのいずれかに分割してバルク・ダンプを実行してください。
3. Use [DEC] [INC] or [VALUE] to select the type of data that will be transmitted.
   - ALL: All data of the DR-770
   - SEQ: All patterns and songs
   - GLOBAL: DPP/roll/metronome/MIDI settings
   - DRMKITS: All user drum kits
   - 1DRMKIT: A specified individual drum kit (If this data is transmitted to the DR-770, the drum kit that is currently selected on the receiving device will change to the drum kit settings that were received.)

4. Press [ENTER].
   The display will ask “Sure?”, allowing you to confirm whether you really want to execute the bulk dump.

5. To execute the bulk dump, press [ENTER].
   The display will indicate “Transmit” (transmitting) ‘Done,” and the bulk dump will be completed.
   If you decide to cancel, press [STOP/EXIT].
   The bulk dump will be canceled, and the display will indicate “Aborted.”

■ If you selected “1DRMKIT,” use [DEC] [INC] or [VALUE] to select the drum kit whose data you want to transmit.

How to load the User Data

Connections

   The DR-770 is now in MIDI mode.
2. Use [◄] [►] to select “2 MIDI ch.”
3. Use [VALUE*] to select the MIDI channel.
   If you want to restore data that was formely transmitted to a sequencer, set the unit to the same MIDI channel that was used when transmitting the data.
   If you want to receive data that being transmitted from another DR-770, set both DR-770 units to the same MIDI channel.
4. Use [◄] [►] to select “7 RxEXC.”

5. Use [DEC] [INC] or [VALUE] to turn the setting “ON.”
   With playback stopped on the DR-770, receive the data.
テストモード

注意: テスト・モード内のテスト項目は チェックを実行すると、本体内にバックアップしているデータが削除されますので、必ず、データのセーブを行って下さい。データのセーブ方法は、データのロードセーブの方法を参照して下さい。

① Required Items
Monitor speakers or Headphones, MIDI cable FSSU: 2 (Polarity switch setting is Jack side) Oscilloscope

② To enter test mode
While simultaneously pressing the [SONG] and [7] buttons, turn the power on. The version number will appear on the LCD display as shown below. The displayed data differs depending on the ROM version.

③ Test Items
The test mode includes the 8 tests.
1. Switch check
2. LCD check
3. RAM check
4. ROM check
5. MIDI check
6. FSR (Key Pads) check
7. OUTPUT check
8. LCD check

④ To exit test mode
On the main screen, press the [8] button. The display will show “INIT?”.

⑤ Test Modeの抜け方
メイン画面の状態で、数字ボタンを押し、値が表示されるとし、表示されている各項目のチェックを行う。

以下の文章において、この画面を、メイン画面と呼びます。

⑥ テストモードへの入り方

以下はテストモードのスクリプトです。

⑦ TEST MODE

CAUTION: When running a test item (RAM check) in the test mode the backup data in the mainframe will be erased. Be sure to save the data before running this test.

To save the data refer to “DATA SAVE AND LOAD”.

⑧ ⑦ LED check
This test checks whether the LED lights normally.
1. Press the numeric button [0] to run this test.
2. If normal, pressing the [REC] button turns on the red LED, while pressing the [START] button turns on the green LED.
3. When pressing the [STOP/EXIT] button, the display will show "OK".
4. Again, press the [STOP/EXIT] button to return to the main screen.

NOTE: Each test number corresponds to the [0] to [7] keys on numeric buttons. To begin a test, press a numeric button that corresponds to the test number to be run.

⑨ OUTPUT check
This test checks whether each key (except key-pads) and the encoder (VALUE knob) are functioning.
1. Press the numeric button [1] to run this test.
2. When pressing a button or Foot SW to be checked, the key name will be displayed in the “ ” field. At the same time a rim-shot sound will be output from Outputs L and R.
3. After all the buttons and Foot SW have been pressed for checking, the test automatically enters the encoder checking.
The display will show as follows:

⑩ LCD check
This test checks whether the LCD is functioning properly.
1. Press the numeric button [2] to run this test.
2. When this test is entered, all segments of the LCD will be displayed.
3. When pressing the [STOP/EXIT] button, the display will show “OK” (even if the LCD does not operate normally).
4. Again, press the [STOP/EXIT] button to return to the main screen.

NOTE: Each test number corresponds to the [0] to [7] keys on numeric buttons. To begin a test, press a numeric button that corresponds to the test number to be run.

实行したいテスト項目に対応している数字ボタンを押し、テストを実行して下さい。

⑦ LED check
このチェックを行います。
②数字ボタンを押して、テストを実行させます。
⑧ FSR (Key Pads)を押す場合、ディスプレイに、正常に表示されます。
⑨ LEDを押す場合、ディスプレイに、正常に表示されます。
⑩ LEDを押す場合、ディスプレイに、正常に表示されます。
⑪ LEDを押す場合、ディスプレイに、正常に表示されます。
⑫ LEDを押す場合、ディスプレイに、正常に表示されます。
⑬ LEDを押す場合、ディスプレイに、正常に表示されます。
⑭ LEDを押す場合、ディスプレイに、正常に表示されます。
⑮ LEDを押す場合、ディスプレイに、正常に表示されます。
⑯ LEDを押す場合、ディスプレイに、正常に表示されます。
⑰ LEDを押す場合、ディスプレイに、正常に表示されます。
⑱ LEDを押す場合、ディスプレイに、正常に表示されます。
⑲ LEDを押す場合、ディスプレイに、正常に表示されます。
⑳ LEDを押す場合、ディスプレイに、正常に表示されます。
⑱ LEDを押す場合、ディスプレイに、正常に表示されます。
⑲ LEDを押す場合、ディスプレイに、正常に表示されます。
⑳ LEDを押す場合、ディスプレイに、正常に表示されます。
⑱ LEDを押す場合、ディスプレイに、正常に表示されます。
⑲ LEDを押す場合、ディスプレイに、正常に表示されます。
⑳ LEDを押す場合、ディスプレイに、正常に表示されます。
⑱ LEDを押す場合、ディスプレイに、正常に表示されます。
⑲ LEDを押す場合、ディスプレイに、正常に表示されます。
⑳ LEDを押す場合、ディスプレイに、正常に表示されます。
⑱ LEDを押す場合、ディスプレイに、正常に表示されます。
⑲ LEDを押す場合、ディスプレイに、正常に表示されます。
⑳ LEDを押す場合、ディスプレイに、正常に表示されます。
[3]. RAM check
1. Press the numeric button [1] to run this test.
   This test automatically performs the RAM check.
   If normal, the display will show “OK”. If a malfunction is found, the display will show “NG”.
2. Press the [STOP/EXIT] button to return to the main screen.

[4]. ROM check
   This test automatically performs the ROM check.
   If normal, the display will show “OK”. If an error occurs, the display will show as follows:
   - If there is an error on the program ROM
     - PROGRAM [ OK ]
   - If there is an error on the wave ROM and program ROM
     - [ OK ] / PROGRAM [ OK ]

2. Press the [STOP/EXIT] button to return to the main screen.

[5]. MIDI check
1. Before entering this test, connect MIDI IN to OUT using the MIDI cable.
   If the test result is normal the display will show “OK”.
   If the test is entered before connecting the MIDI cable, the display will show “NG”. Connect the MIDI cable properly and the display will change to “OK”.
3. Press the [STOP/EXIT] button to return to the main screen.

[6]. FSR (key-pads) check
This test checks whether the FSR (key-pads) is functioning.
   The display will show as follows:
   - FSR Chk [ OK ]

2. In the “ ” field the key-pad number is displayed, and in the “ ” field the pressure value is indicated.
   An asterisk “*” is displayed when the pressure value reaches “127”.
   When a key-pad is pressed, the red LED first goes on and then the green LED turns on when the pressure reaches “127”.
   A beep of oscillation sound is output from the OUTPUT-L/R jacks.
   If there is an error on the wave ROM and program ROM simultaneously, the display will show “NG”.
   If an error occurs, the display will show as shown in the table below.

<table>
<thead>
<tr>
<th>Pad no./ストップパッド番号</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output destination/出力位置</td>
<td>L</td>
<td>R</td>
<td>IND1</td>
</tr>
<tr>
<td>Sound OUT/音出</td>
<td>TOM1</td>
<td>TOM2</td>
<td>TOM3</td>
</tr>
</tbody>
</table>

3. When all the key-pads are pressed with a pressure of more than 127 and there is no pattern touch in the FSR, the display will show “OK”. If the pressure value is lower or any pattern touch occurs, the display will show “NG”.

4. Press the [STOP/EXIT] button to return to the main screen.

[7]. Sound check
This performs the tests for sounding and panning.
1. Press the numeric button [7] to run this test.
   The display will show as follows:
   - Sound [ ON ]

   2. In the “ ” field the output destination is displayed, and in the “ ” field the velocity is indicated.
   3. When you press one of key-pads 1 to 4, sound will be output as shown in the table below.
4. When you press one of key-pads “5” to “7”, a rectangle wave will be output with following EQ setting.

<table>
<thead>
<tr>
<th>Pad no.</th>
<th>EQ High</th>
<th>EQ Low</th>
<th>LCD display</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0dB</td>
<td>-12dB</td>
<td>+12dB</td>
</tr>
<tr>
<td>6</td>
<td>0dB</td>
<td>+12dB</td>
<td>-12dB</td>
</tr>
<tr>
<td>7</td>
<td>-12dB</td>
<td>0dB</td>
<td>+12dB</td>
</tr>
</tbody>
</table>

5. When you press one of key-pads 13 to 15, a sine wave will be output with the following panning.

<table>
<thead>
<tr>
<th>Pad no.</th>
<th>Panning</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>L7</td>
</tr>
<tr>
<td>14</td>
<td>CENTER</td>
</tr>
<tr>
<td>15</td>
<td>R7</td>
</tr>
</tbody>
</table>

6. The LCD is displayed as shown below.

7. In the “ ” field the panning state is displayed, and in the “ ” field the pressure value is indicated.

8. When pressing the [STOP/EXIT] button, the display will show “OK”.

9. Again, press the [STOP/EXIT] button to return to the main screen.
TROUBLESHOOTING

1. No sound is produced.
   Possible causes:
   - The volume is set to minimum.
   - The selected Rhythm Pattern or Song contains no data.

2. Sound breaks.
   Possible causes:
   - More than 14 voices are being played simultaneously.
   - The Flam Interval is set to zero.

3. Sound is strange.
   Possible causes:
   - The settings for the key-pads are inappropriate.

4. The Roll/Flam effect is not produced.
   Possible causes:
   - The Flam Ratio is set to inappropriate.

5. Playback does not begin when [START] button is pressed.
   Possible causes:
   - The Sync Mode is set to MIDI.
   - The selected Rhythm Pattern or Song contains no data.

6. Songs automatically play one after another.
   Possible causes:
   - The song chain function is ON.

7. The tempo changes when a song starts playing.
   Possible causes:
   - An internal tempo is being set.

8. The DR-770 cannot be controlled by an external MIDI device.
   Possible causes:
   - The MIDI channels of the DR-770 and the external MIDI device do not match.

9. When the DR-770 is played by performance data from a sequencer, the song on the DR-770 starts together.
   Possible causes:
   - The Sync Mode is set to MIDI sync.

10. The metronome does not sound.
    Possible causes:
    - The level of the metronome is set to zero.

11. Program Change messages cannot be transmitted or received.
    Possible causes:
    - PRG in the MIDI Mode is set to OFF.

12. The volume does not change when MIDI Volume messages are received.
    Possible causes:
    - RXVOL in the MIDI Mode is set to OFF.

13. The volume does not change when MIDI Expression messages are received.
    Possible causes:
    - RXEXPR in the MIDI Mode is set to OFF.

14. The DR-770 cannot receive Exclusive messages.
    Possible causes:
    - RXEXC in the MIDI Mode is set to OFF.
If you attempt an incorrect operation or if an operation could not be executed, the display will indicate an error message. Refer to this list and take the appropriate action.

- **No more patterns can be recorded.**
  - Press [STOP/EXIT]. If you want to continue recording patterns, you must first delete unneeded patterns. (p. 62)

- **No more songs can be recorded.**
  - Press [STOP/EXIT]. If you want to continue recording songs, you must first delete unneeded songs. (p. 67)

- **During pattern editing, using “Copy Pattern” or “Delete Pattern,” the selected pattern contained no data.**
  - Press [STOP/EXIT], then select a different pattern.

- **During song editing, using “Copy Pattern” or “Delete Pattern,” the selected song contained no data.**
  - Press [STOP/EXIT], then select a different part.

- **An excessive amount of MIDI data was received all at once, and the DR-770 was unable to process it.**
  - Press [STOP/EXIT], if this message appears while receiving data, reduce the amount of MIDI data that is being transmitted to the DR-770.
  - Change the MIDI mode setting so unnecessary MIDI messages are not transmitted or received. (p. 87)

- **An exclusive message could not be received correctly.**
  - Press [STOP/EXIT], then try the operation once again.

- **The memory backup battery inside the DR-770 has run down.**
  - (This message will appear when the power is turned on.)
  - Replace the battery as soon as possible. For battery replacement, please contact a Roland Service Center.

- **The data in internal memory has been lost.**
  - (This message will appear when the power is turned on.)
  - After this message is shown, “Press ENTER” appears, then pressing [ENTER] will recall the factory settings.

- **An excessive amount of MIDI data was received all at once, and the DR-770 was unable to process it.**
  - Press [STOP/EXIT], if this message appears while receiving data, reduce the amount of MIDI data that is being transmitted to the DR-770.
  - Change the MIDI mode setting so unnecessary MIDI messages are not transmitted or received. (p. 87)
BLOCK DIAGRAM/ブロック図
CIRCUIT BOARD (JACK)
CIRCUIT BOARD (MAIN) 基板図
Change Information/変更案内

The wiring differs depending on the serial number (the location of the red wire is opposite). The difference between before and after the change is as follows.

Before change
Applicable serial numbers: ZL90100 ~ ZL90199
Applicable parts: #01898989 WIRING 11p

Wire color: red white - white

The connection method is as follows.

Jack board
Main board

No.11 of CN102 is red
No.11 of CN2 is red

Figure 1

There is no difference in the circuit board before or after the change.

As parts for servicing, only the newer wiring (01898989 WIRING W11) is supplied.
The jack board supplied for servicing has the newer wiring.
The older wiring was installed only on the first production lot of one hundred units (ZL90100 ~ ZL90199).

If you replace the jack board wiring with the newer version (01898989 WIRING W11) on a unit with a serial number ZL90100 ~ ZL90199, make connections using the newer method (figure 4).

If you retain the existing jack board and replace only the main board of a unit with a serial number ZL90100 ~ ZL90199, make connections using the older method (figure 2).

If you retain the existing main board and replace only the jack board on a unit with a serial number ZL90100 ~ ZL90199, make connections using the newer method (figure 4).

After change
Applicable serial numbers: ZL90200 ~
Applicable parts: #01898989 WIRING W11

Wire color: white - white red

Figure 2

图1

接続方法は以下のとおりです。

接続方法

Jack board
Main board

No.11 of CN102 is red
No.11 of CN2 is red

Figure 3

图2

接続方法は、以下のとおりです。

接続方法

Jack board
Main board

No.1 of CN10 is red
No.1 of CN2 is red

Figure 4

图4

There is no difference in the circuit board before or after the change.

As parts for servicing, only the newer wiring (01898989 WIRING W11) is supplied.
The jack board supplied for servicing has the newer wiring.
The older wiring was installed only on the first production lot of one hundred units (ZL90100 ~ ZL90199).

If you replace the jack board wiring with the newer version (01898989 WIRING W11) on a unit with a serial number ZL90100 ~ ZL90199, make connections using the newer method (figure 4).

If you retain the existing jack board and replace only the main board of a unit with a serial number ZL90100 ~ ZL90199, make connections using the older method (figure 2).

If you retain the existing main board and replace only the jack board on a unit with a serial number ZL90100 ~ ZL90199, make connections using the newer method (figure 4).