



CADVIZOR

Make it simple

Circuit design manual

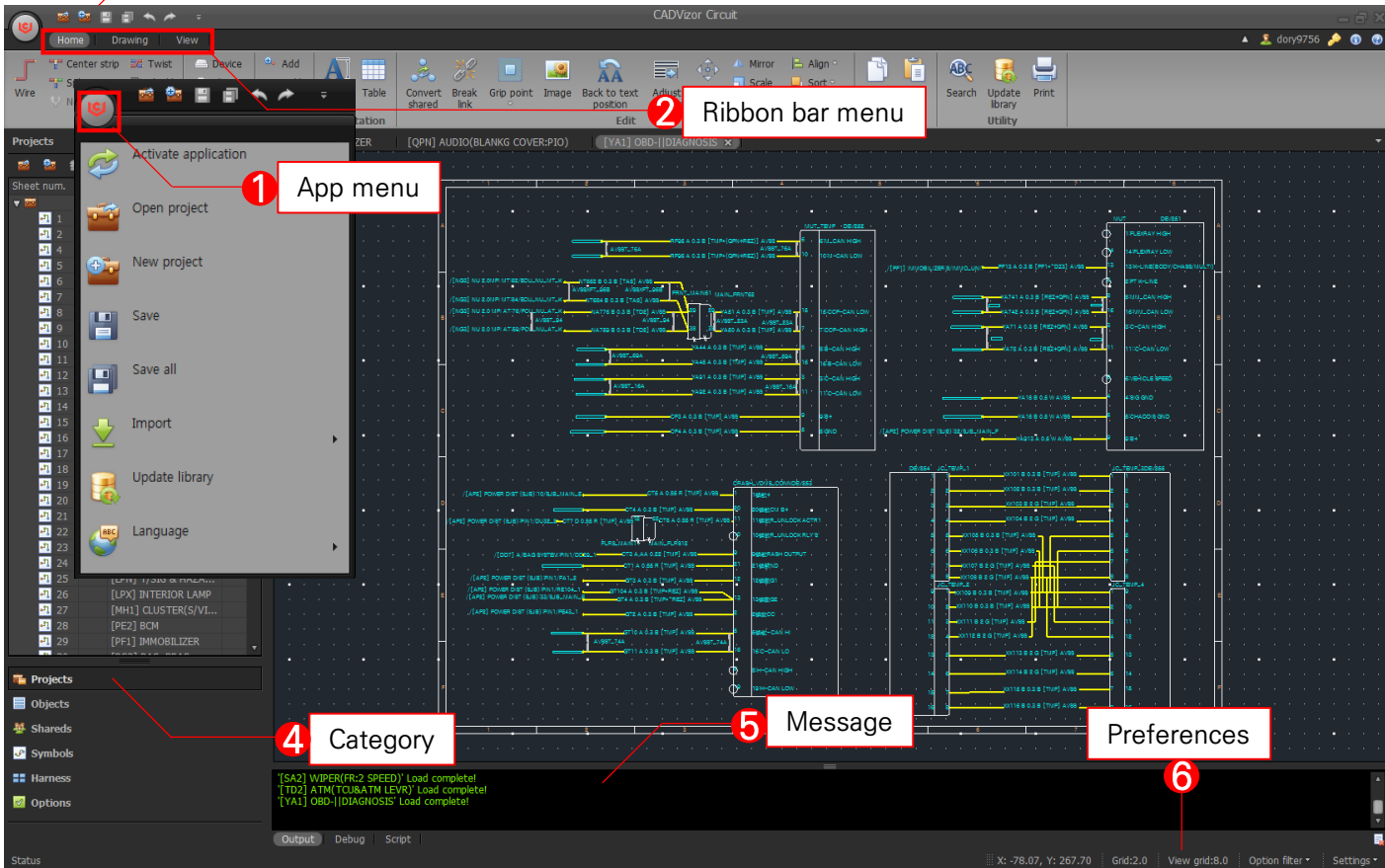
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| _ Project & Diagram creation

1. Screen layout
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5. Enter harness code
6. Enter option code

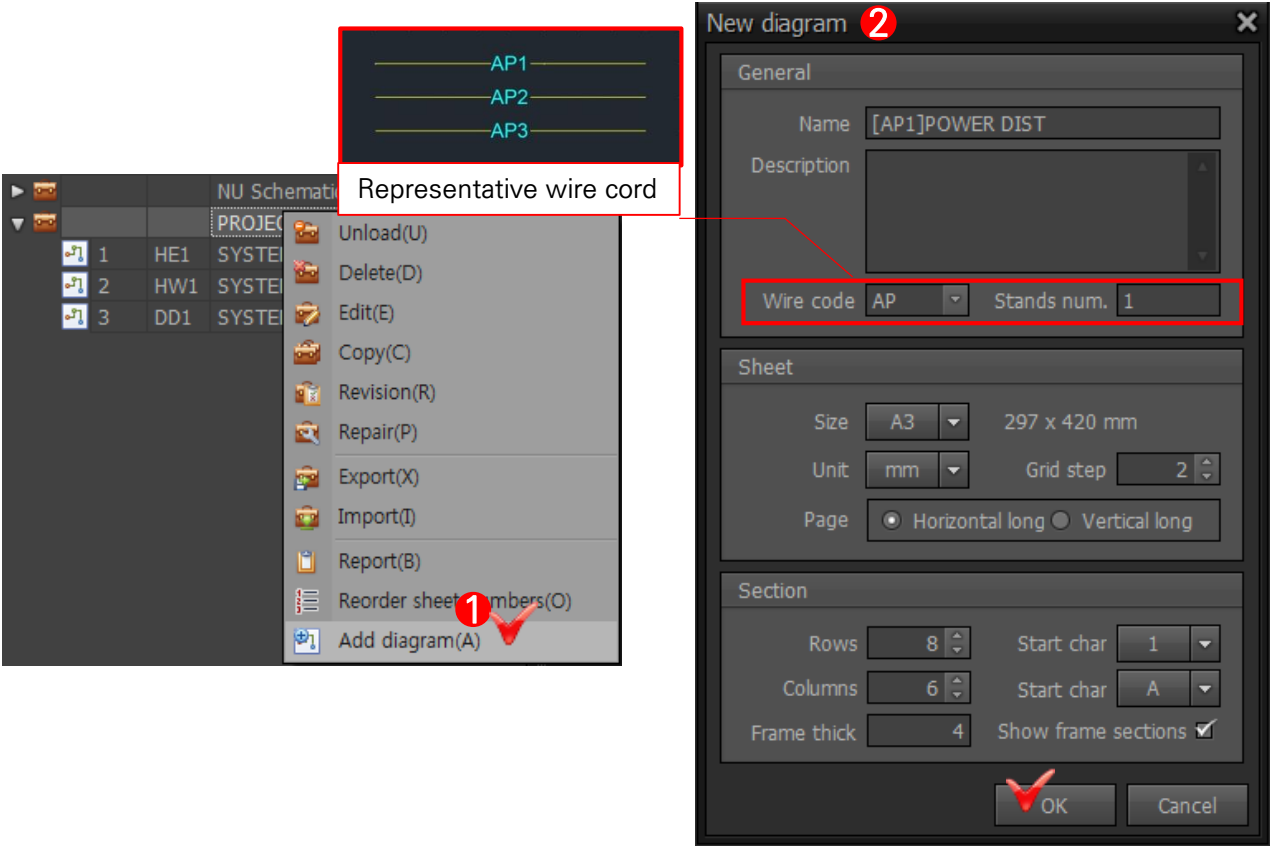
1. Screen layout

Screen	Description
 <p>The screenshot shows the CADVIZOR Circuit software interface. The top ribbon bar is labeled 'Home Drawing View'. A 'Quick access toolbar' is located below the ribbon. On the left, there is a 'Projects' list and a 'Category' list. A 'Message' box is visible at the bottom left, and a 'Preferences' dialog is open at the bottom right. Numbered callouts (1-6) identify these key UI elements.</p>	<p>Screen layout</p> <ol style="list-style-type: none"> App menu Active application, Open project, New project, Save, Save All, Import, Update library, Language Ribbon bar menu <ul style="list-style-type: none"> Home: Circuit creation and placement of the most frequently used functions Drawing: Place geometry and style settings View: Place camera and UI controls Quick access tool bar By adding frequently used functions to the Quick access toolbar, widely use diagram window Category Project List, Circuit object list, Shared circuit list, Symbol list, Harness code list, Option code list Message Error, warning message Preferences Additional information related to drawings

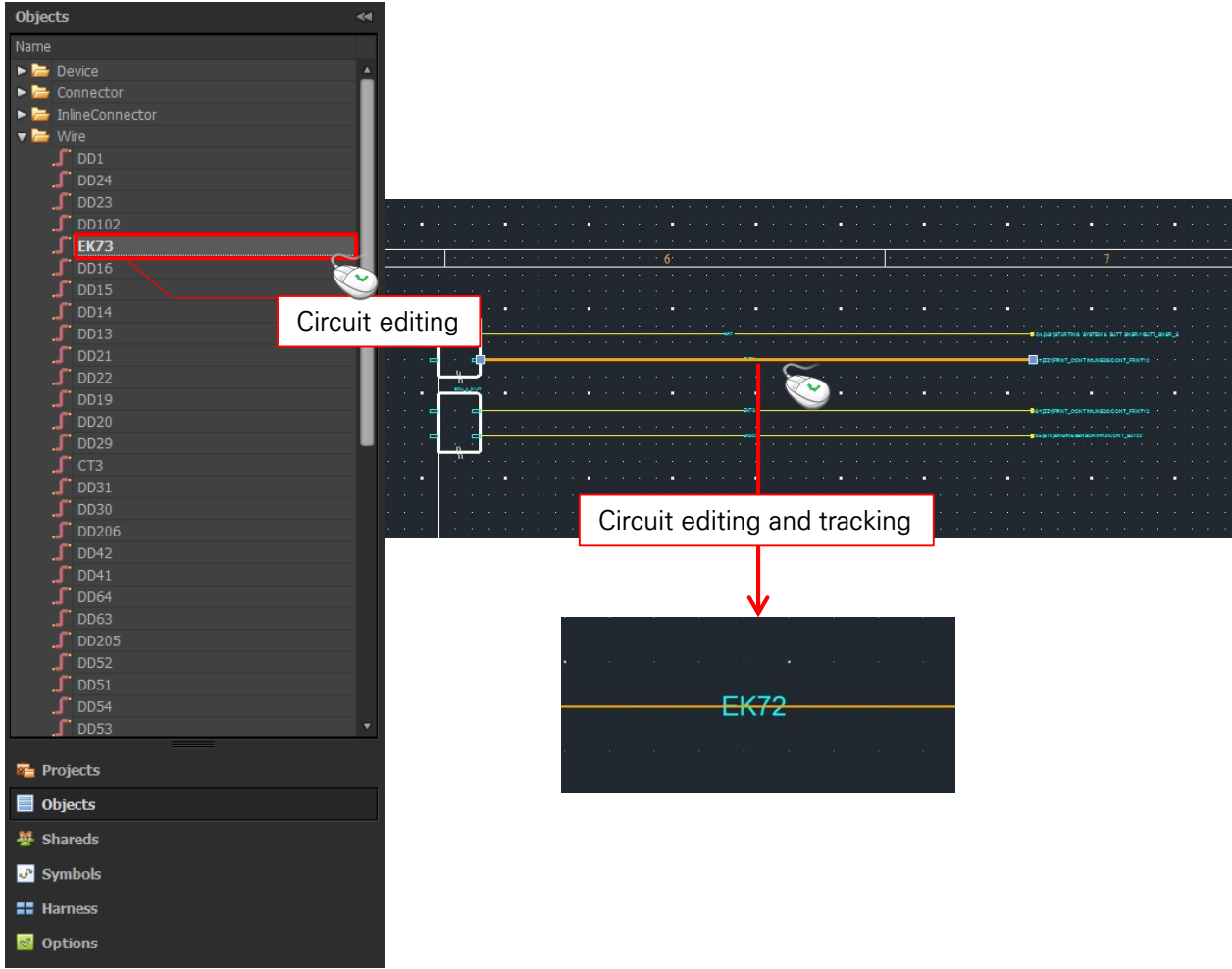
2. Project creation

Screen	Description																								
<p>The screenshot illustrates the project creation workflow. On the left, the 'New project' button is highlighted with a red '1' and a checkmark. Below it, the 'Projects' table shows a list of projects with their respective revisions. A red box highlights the 'Rev.' column, and a callout points to it with the text 'Project revision management'. On the right, the 'New project' dialog box is shown with a red '2' and a checkmark. The 'Rev.' field is highlighted with a red box, indicating the revision management step.</p> <table border="1" data-bbox="366 839 952 1189"> <thead> <tr> <th>Sheet num.</th> <th>Code</th> <th>Name</th> <th>Rev.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>ABC</td> <td>A</td> </tr> <tr> <td></td> <td></td> <td>CAD_Demo_P1</td> <td>A</td> </tr> <tr> <td></td> <td></td> <td>DEMO_P</td> <td>A</td> </tr> <tr> <td></td> <td></td> <td>NU Schematic Diagram LI...</td> <td>A</td> </tr> <tr> <td></td> <td></td> <td>PROJECT(SAMPLE)_201...</td> <td>A</td> </tr> </tbody> </table>	Sheet num.	Code	Name	Rev.			ABC	A			CAD_Demo_P1	A			DEMO_P	A			NU Schematic Diagram LI...	A			PROJECT(SAMPLE)_201...	A	<p data-bbox="1982 341 2237 369">■ Project creation</p> <ol style="list-style-type: none"> <li data-bbox="1760 451 2270 479">① New project : Click New project button <li data-bbox="1760 515 2104 544">② Name: Enter project name <p data-bbox="1793 579 2201 608">Rev: Project revision management</p> <ul style="list-style-type: none"> <li data-bbox="1793 611 2277 639">▪ Project name does not allow duplicates <li data-bbox="1793 642 2193 671">– Name: PROJECT_01, Rev: A(O) <li data-bbox="1793 674 2181 702">– Name: PROJECT_01, Rev: A(X) <li data-bbox="1793 738 2277 766">▪ Use revision to duplicate project name <li data-bbox="1793 769 2193 798">– Name: PROJECT_01, Rev: A(O) <li data-bbox="1793 801 2181 829">– Name: PROJECT_01, Rev: B(O) <p data-bbox="1793 865 2384 893">Description: Project history, additional information</p>
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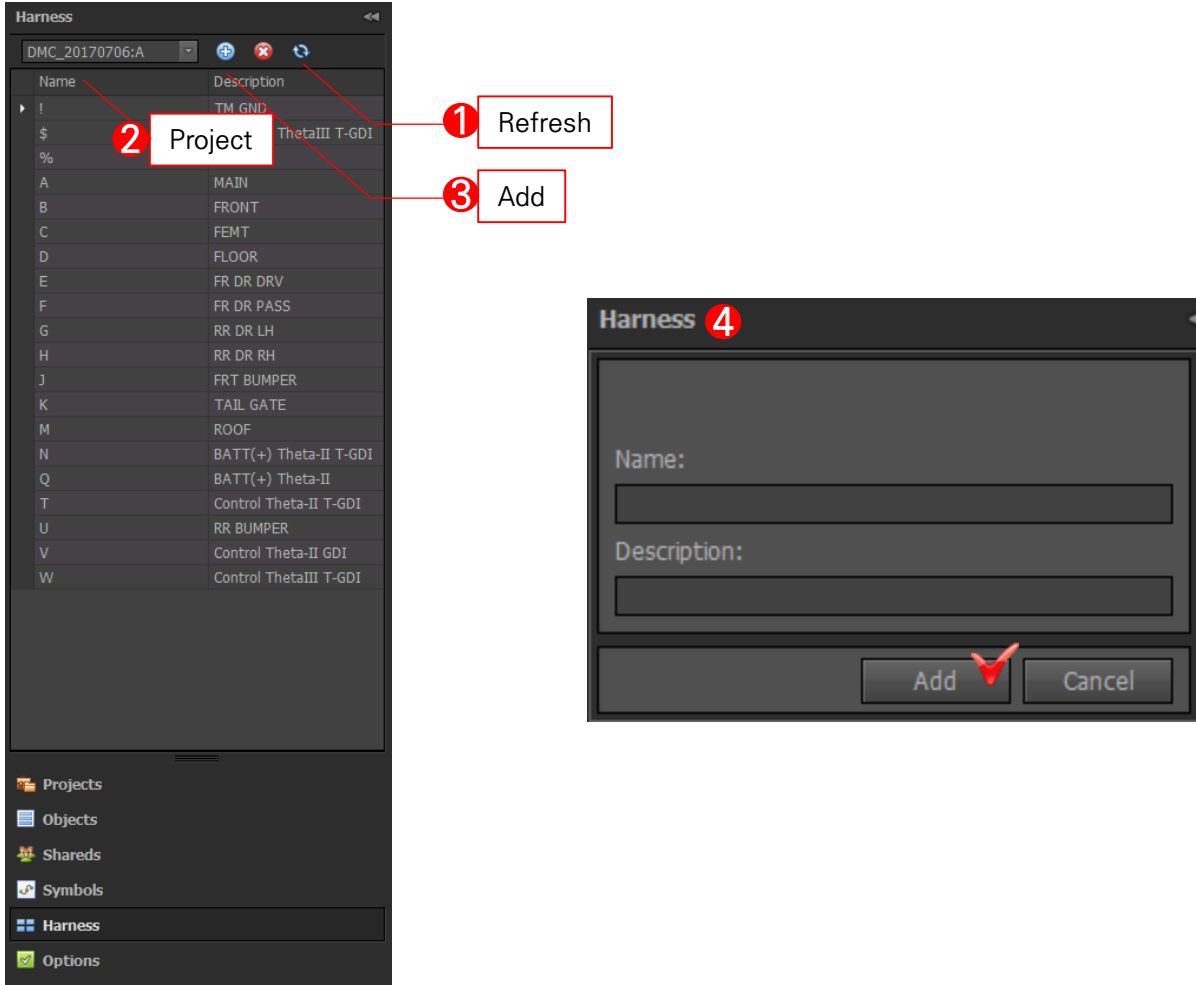
3. Diagram creation

Screen	Description
 <p>The screenshot shows the 'Add diagram(A)' option in the context menu, marked with a red circle and a checkmark. The 'New diagram' dialog box is also marked with a red circle and a checkmark. The 'Wire code' dropdown menu is set to 'AP', and the 'Stands num.' field is set to '1'. A red box highlights the 'Representative wire cord' section, which shows three wires labeled AP1, AP2, and AP3.</p>	<h4>Diagram creation</h4> <ol style="list-style-type: none"> After selecting a project, click mouse RMB, click Add diagram button. Name: Enter the name of the diagram <p>Wire code: Using a representative circuit name, when wire is created, it is automatically assigned from representative name 1.</p> <ul style="list-style-type: none"> ▪ Decrease wire name editing operations <ul style="list-style-type: none"> – If the wire name is AP: AP01, AP02, AP03... – If no wire name exists: Wire01, Wire02, Wirre03... <p>Sheet: Drawing settings</p> <p>Section: Template area settings</p>

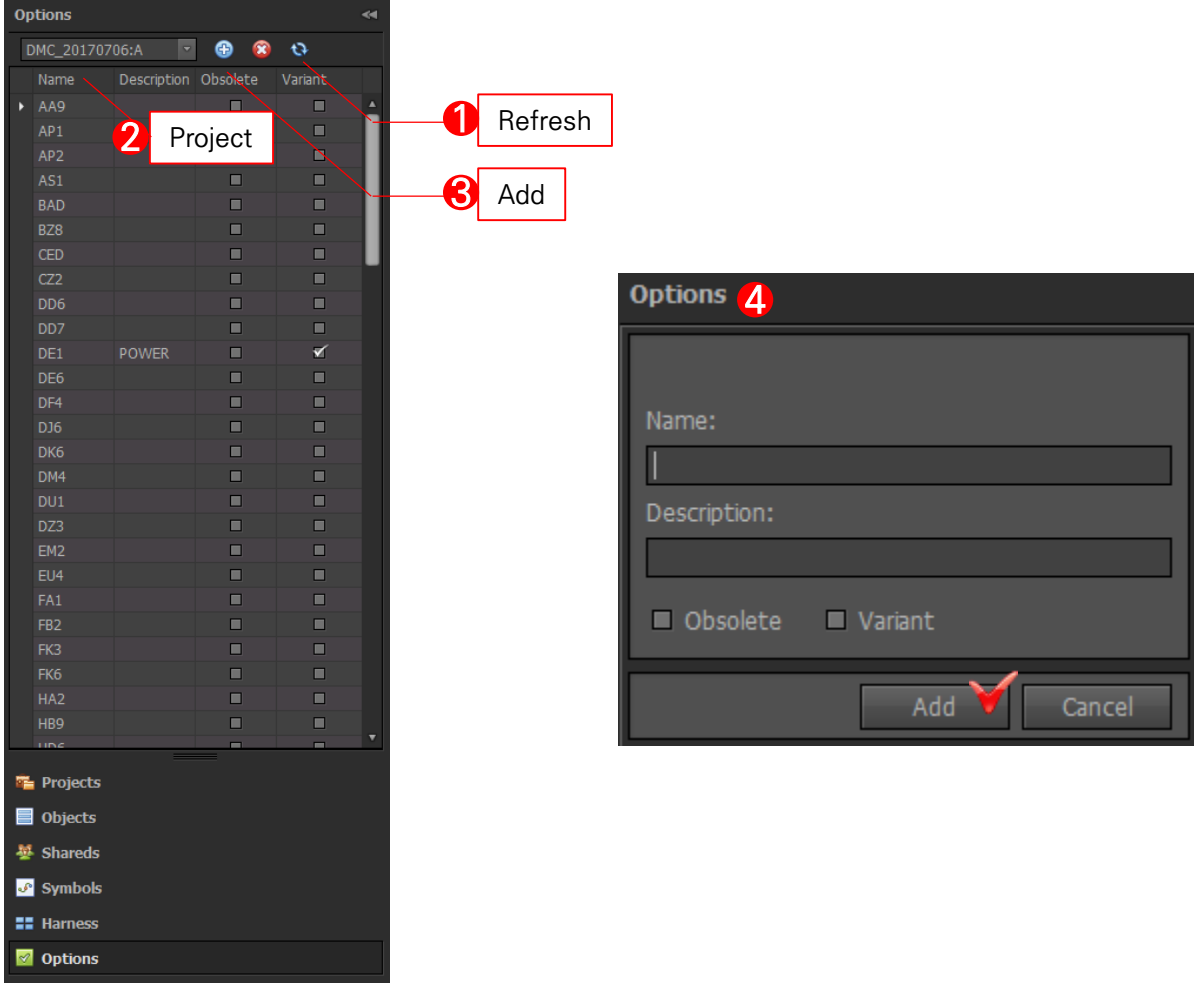
4. Object list

Screen	Description
 <p>The screenshot displays the 'Objects' panel on the left, which is expanded to the 'Wire' category. A list of circuit names is shown, with 'EK73' highlighted. A mouse cursor is positioned over 'EK73', and a red box labeled 'Circuit editing' points to it. The main workspace shows a circuit diagram with several wires. A mouse cursor is also present on the diagram. Below the main workspace, a smaller inset shows the circuit name 'EK72' being tracked, with a red box labeled 'Circuit editing and tracking' pointing to it.</p>	<p>Object list</p> <ul style="list-style-type: none"> ▪ When the circuit is clicked, the diagram circuit is tracked. ▪ Double-click circuit tree, edit circuit name <ul style="list-style-type: none"> - Circuit tree editing : Move up key(↑), Move down key(↓), Enter Key Change with diagram circuit ▪ Click circuit diagrams, track circuit list ▪ To search for names: 'Ctrl + F' Key

5. Enter harness code

Screen	Description
	<p><input type="checkbox"/> Enter harness code</p>
	<ul style="list-style-type: none"> ① Click Refresh button: Updating project data ② Select Project ③ Click Add button ④ Name: Insert harness cord Description: Additional information

6. Enter option code

Screen	Description
 <p>The screenshot shows the 'Options' dialog box with a list of options. The 'Project' option is selected. The 'Add' button is highlighted with a red checkmark. The 'Add' dialog box is also shown, with fields for 'Name' and 'Description', and checkboxes for 'Obsolete' and 'Variant'.</p>	<p><input checked="" type="checkbox"/> Enter option code</p> <ol style="list-style-type: none"> ① Click Refresh button: Updating project data ② Select Project ③ Click Add button ④ Name: Insert option cord Description: Additional information

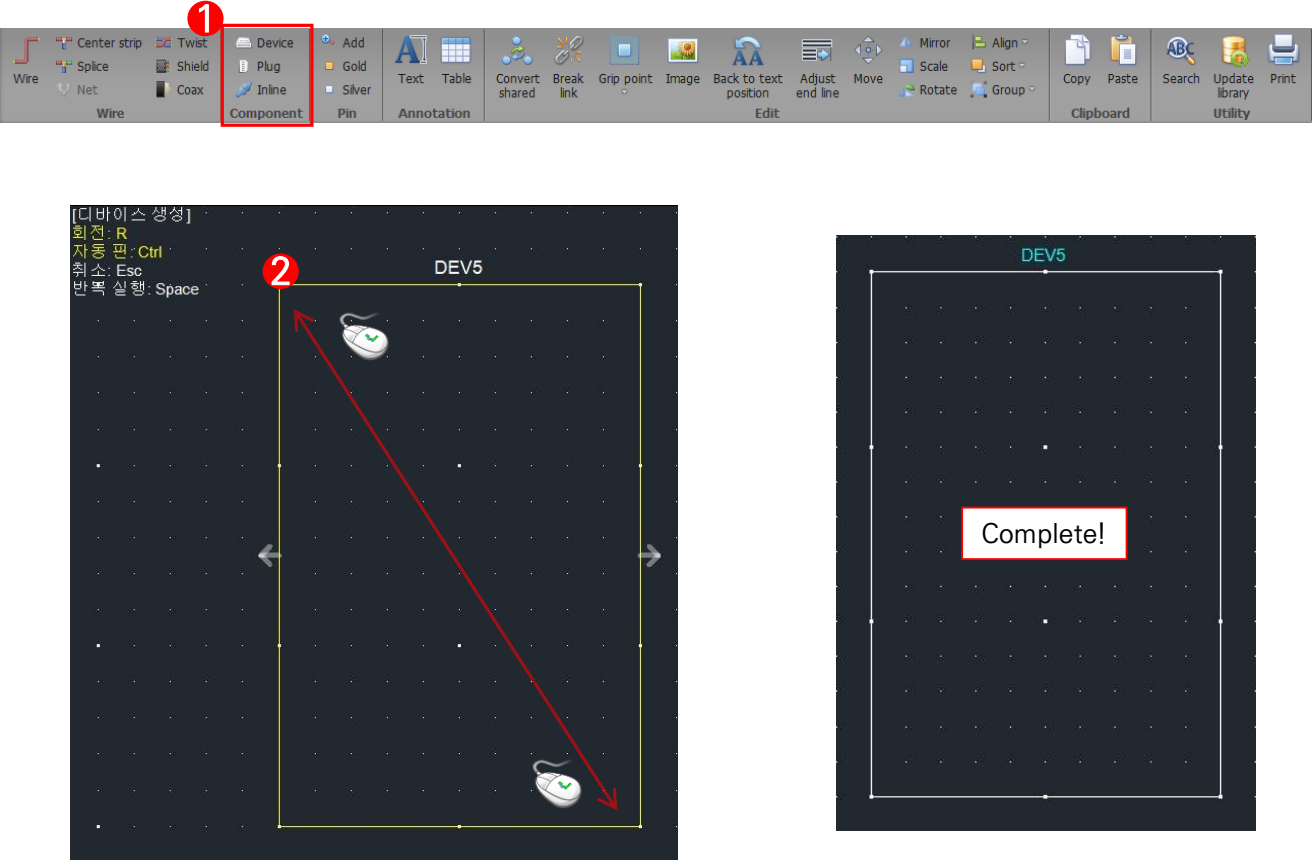
|| _ Circuit object creation

1. Preview circuit objects
2. Device & Connector creation
3. Pin & Plating creation
4. Wire creation
5. Center strip splice creation
6. Split splice creation
7. Multicore creation

1. Preview circuit objects

Screen	Description
<p>The screenshot shows a circuit design workspace with a dark background and a grid. A power distribution network is shown with various components and connections. The components are numbered 1 through 10. 1: Device (DEV1), 2: Plug connector (P1), 3: Inline connector (J1), 4: Pin (P2), 5: Wire (AP1, AP2), 6: Shield (MC1), 7: Twist (MC2), 8: Coax (MC4), 9: Center strip splice (AP13_4), 10: Split splice (SP3).</p>	<p>Preview circuit objects</p> <ul style="list-style-type: none"> ① Device ② Plug connector ③ Inline connector ④ Pin ⑤ Wire ⑥ Shield ⑦ Twist ⑧ Coax ⑨ Center strip splice ⑩ Split splice

2. Device & Connector creation

Screen	Description
 <p>The screenshot shows the software's Home tab with the 'Device', 'Plug', and 'Inline' buttons highlighted in a red box, marked with a red circle '1'. Below this are two diagrams illustrating the device creation process. The first diagram shows a device labeled 'DEV5' on a dark grid background. A red arrow points from the top-left corner to the bottom-right corner, indicating the direction of the plug connector. A red circle '2' is placed at the top-left corner. The second diagram shows the same device 'DEV5' with a white rectangular outline and a red box containing the text 'Complete!' in the center.</p>	<p>Device & Connector creation</p> <ol style="list-style-type: none"> Click Device, Plug, Inline button on the Home tab Mouse drag in diagram <ul style="list-style-type: none"> ▪ Connector direction: When contacting the device, the direction of the plug connector is automatic ▪ Rotation: Press 'R' Key to rotate 90 degrees ▪ Automatic pin generation: Press 'Ctrl' Key to create a pin automatically ▪ Cancel: 'Esc' Key ▪ Repeat: 'Space' Key

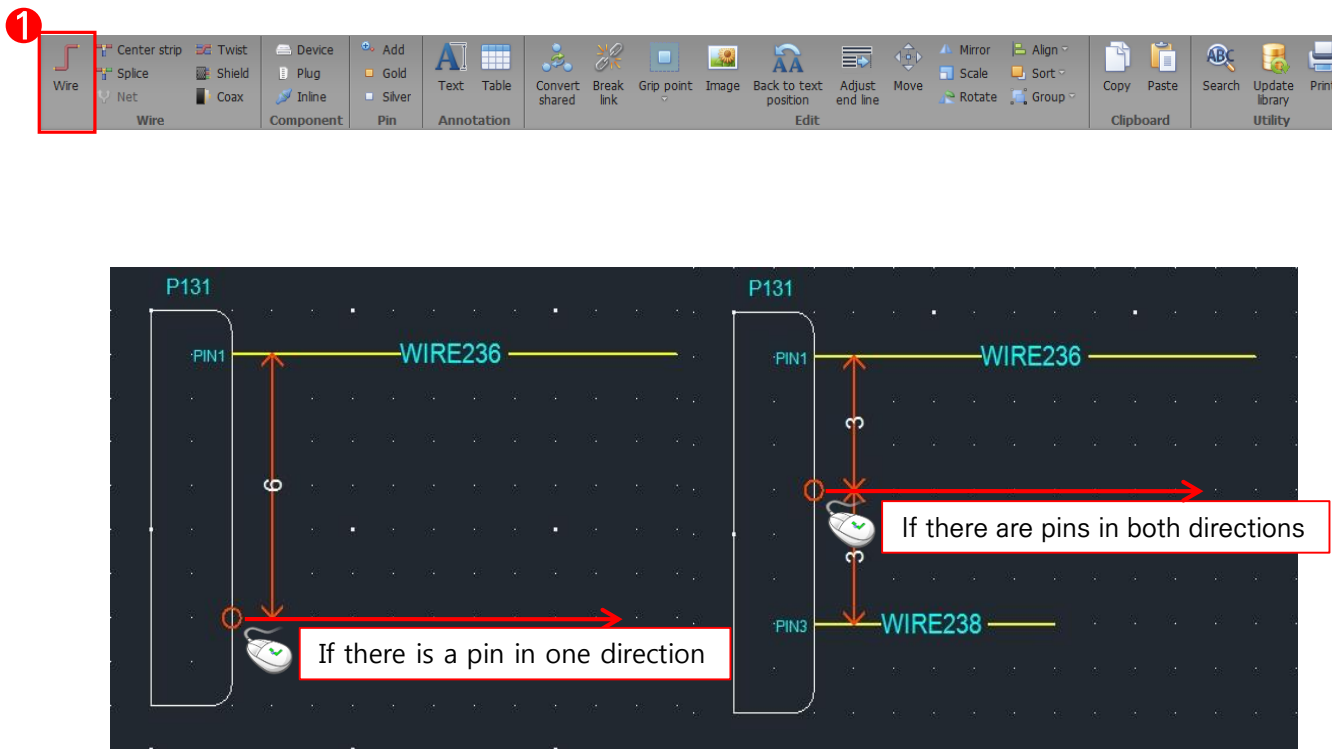
3. Pin & Plating creation

Screen	Description
<p>The screenshot displays the software's toolbar and menu. The 'Component' menu is open, and the 'Pin' option is highlighted with a red box and the number '2'. Below the toolbar, three diagrams illustrate the process: 1. 'Pin creation' shows a wire labeled 'P13' with a mouse cursor clicking on a pin icon labeled '1'. 2. 'Plating (gold: *)' shows a wire labeled 'P11' with gold plating symbols (*) and a mouse cursor clicking on a pin icon labeled '1'. 3. 'Plating (silver: @)' shows a wire labeled 'P12' with silver plating symbols (@) and a mouse cursor clicking on a pin icon labeled '1'.</p>	<h3>Pin & Plating creation</h3> <ol style="list-style-type: none"> Select circuit object <ul style="list-style-type: none"> Pin creation: Select device, connector Plating creation: Select pin Click Pin, Plating(Gold*), Silver(@) button on the Home tab <ul style="list-style-type: none"> Change pin location: <ul style="list-style-type: none"> Select pin, mouse drag in diagram Move up key(↑), Move down key(↓), Move left key(←), Move right key(→), Enter Key. Pin multiple selection: Select pin, 'Shift' key and mouse drag. All of the pins within the mouse region are checked. Cancel: 'Esc' Key Repeat: 'Space' Key

4. Wire creation

Screen	Description
<div data-bbox="206 291 1549 416" data-label="Image"> </div> <div data-bbox="326 486 861 521" data-label="Section-Header"> <p>A. Connector without library information</p> </div> <div data-bbox="310 529 894 801" data-label="Image"> </div> <div data-bbox="947 529 1488 801" data-label="Image"> </div> <div data-bbox="326 853 817 888" data-label="Section-Header"> <p>B. Connector with library information</p> </div> <div data-bbox="310 896 733 1225" data-label="Image"> </div> <div data-bbox="947 896 1370 1225" data-label="Image"> </div>	<div data-bbox="1997 339 2219 374" data-label="Section-Header"> <p>■ Wire creation</p> </div> <div data-bbox="1760 451 2430 539" data-label="Text"> <p>A. When connecting a connector that does not have library information, create a geometry pin and create a wire at the same time</p> </div> <div data-bbox="1786 544 2237 605" data-label="List-Group"> <ul style="list-style-type: none"> ① Click Wire button on the Home tab ② Mouse drag in diagram </div> <div data-bbox="1760 639 2430 701" data-label="Text"> <p>B. When connecting a connector with library information, create a library pin and create a wire at the same time</p> </div> <div data-bbox="1786 705 2237 796" data-label="List-Group"> <ul style="list-style-type: none"> ① Click Wire button on the Home tab ② Select library pin ③ Mouse drag in diagram </div> <div data-bbox="1760 829 1982 861" data-label="Text"> <p>▪ Cancel: 'Esc' Key</p> </div> <div data-bbox="1760 893 2015 925" data-label="Text"> <p>▪ Repeat: 'Space' Key</p> </div>

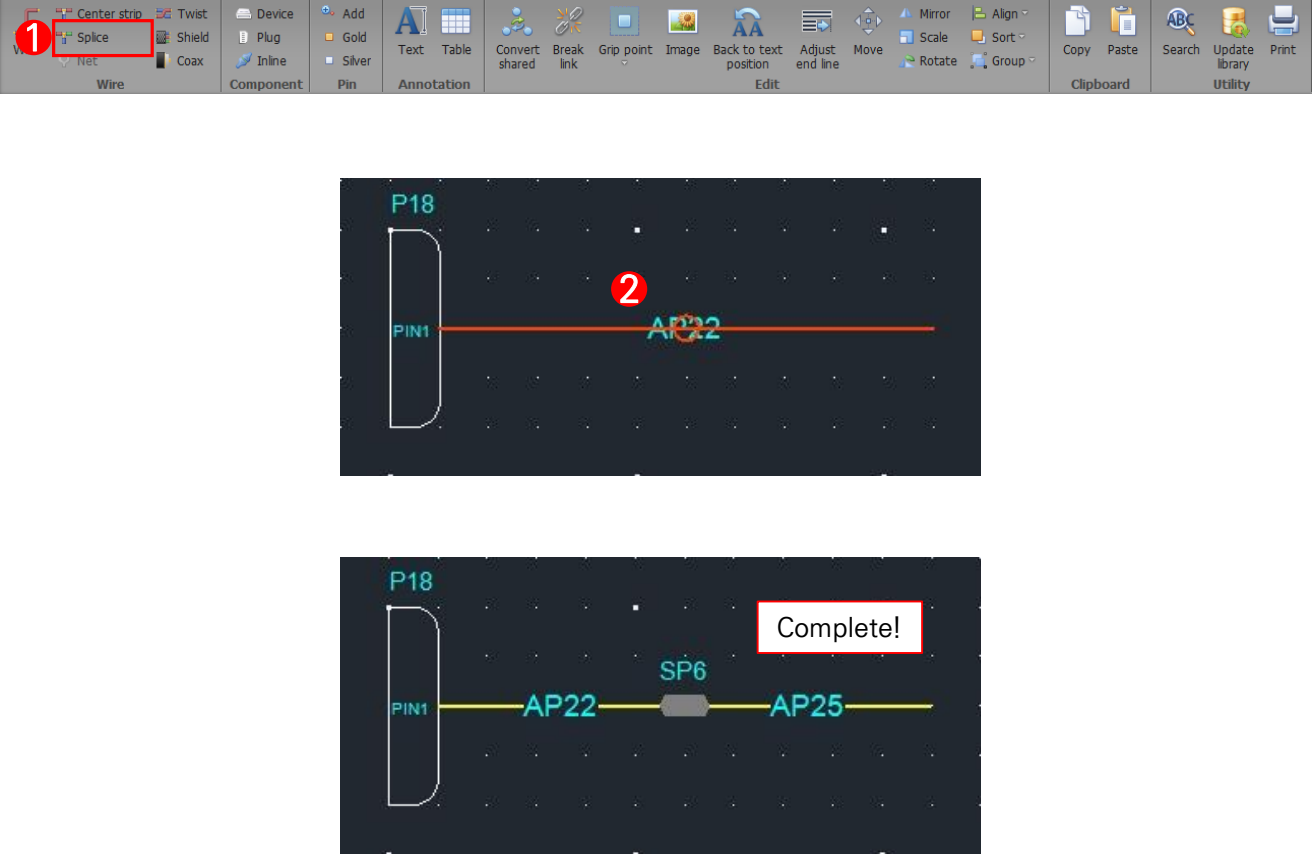
4. Wire creation

Screen	Description
 <p data-bbox="203 285 254 328">1</p> <p data-bbox="242 314 1541 414"> Wire, Center strip, Twist, Device, Add, Text, Table, Convert shared, Break link, Grip point, Image, Back to text position, Adjust end line, Move, Mirror, Scale, Rotate, Group, Align, Sort, Copy, Paste, Search, Update library, Print, Net, Shield, Plug, Gold, Silver, Annotation, Component, Pin, Wire, InLine, Component, Pin, Annotation, Edit, Clipboard, Utility </p> <p data-bbox="356 549 1490 1021"> P131, PIN1, WIRE236, WIRE238, PIN1, PIN3, If there is a pin in one direction, If there are pins in both directions </p>	<p data-bbox="1987 335 2229 378">■ Wire creation</p> <ul data-bbox="1758 449 2382 542" style="list-style-type: none"> ▪ The interval between the pins is expressed as the number of grids so that wires can be generated at regular intervals.

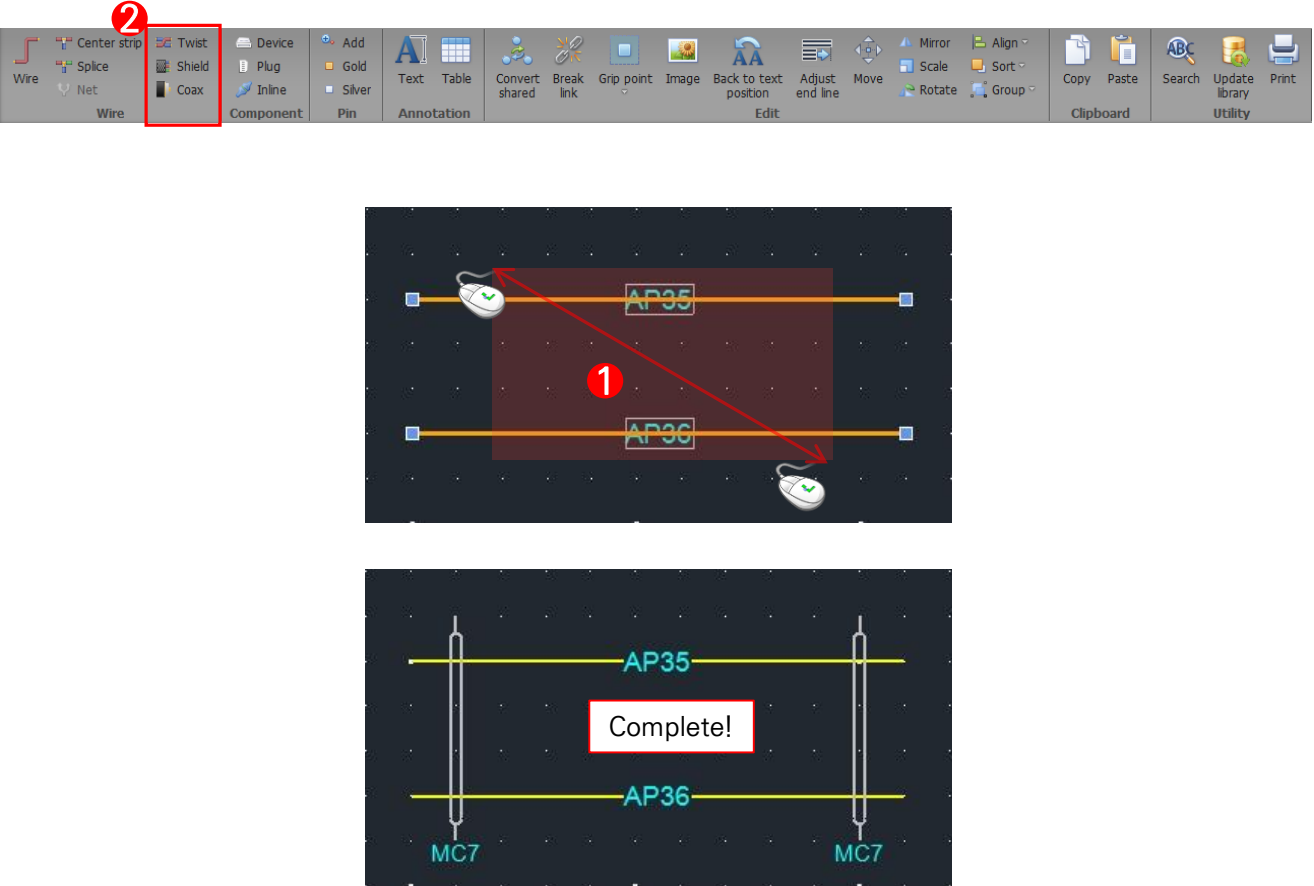
5. Center strip splice creation

Screen	Description
<div data-bbox="206 292 1549 416" data-label="Image"> </div> <div data-bbox="318 486 728 521" data-label="Section-Header"> <p>A. Wire and center strip splice</p> </div> <div data-bbox="308 532 848 802" data-label="Image"> </div> <div data-bbox="955 532 1490 802" data-label="Image"> </div> <div data-bbox="318 861 603 895" data-label="Section-Header"> <p>B. center strip splice</p> </div> <div data-bbox="308 905 848 1175" data-label="Image"> </div> <div data-bbox="955 905 1490 1175" data-label="Image"> </div>	<div data-bbox="1898 339 2318 374" data-label="Section-Header"> <p>■ Center strip splice creation</p> </div> <div data-bbox="1753 451 2456 482" data-label="Section-Header"> <p>A. Automatically create center strip, when creating wire</p> </div> <div data-bbox="1796 486 2244 544" data-label="List-Group"> <ul style="list-style-type: none"> ① Click Wire button on the Home tab ② Create from main wire </div> <div data-bbox="1753 578 2117 609" data-label="Section-Header"> <p>B. Create General Center Strip</p> </div> <div data-bbox="1796 612 2323 669" data-label="List-Group"> <ul style="list-style-type: none"> ① Click Center strip button on the Home tab ② Create from main wire </div> <div data-bbox="1753 705 2361 798" data-label="List-Group"> <ul style="list-style-type: none"> ▪ Center strip name: Refer to main wire name. ex) When the name of the wire is AP17: AP17_1, AP17_2, AP17_3... </div> <div data-bbox="1753 832 2018 925" data-label="List-Group"> <ul style="list-style-type: none"> ▪ Cancel: 'Esc' Key ▪ Repeat: 'Space' Key </div>

6. Split splice creation

Screen	Description
 <p>The screenshot displays the software's ribbon menu with the 'Center strip' button highlighted. Below the menu, two circuit diagrams illustrate the process. The first diagram shows a wire from a component labeled 'PIN1' being extended, with a red circle and the number 2 indicating the point where a new wire is created. The second diagram shows the final result with a split splice labeled 'SP6' connecting two wire segments 'AP22' and 'AP25', with a red box containing the word 'Complete!'.</p>	<p>Split splice creation</p> <ol style="list-style-type: none"> ① Click Center strip button on the Home tab ② Create from main wire <ul style="list-style-type: none"> ▪ Wire cutting: The wire is connected to a new wire.

7. Multicore creation

Screen	Description
 <p>The screenshot displays the software's home tab with various tool icons. A red box highlights the 'Twist', 'Shield', and 'Coax' buttons, with a red '2' indicating the selection step. Below, two diagrams illustrate the process: the top one shows a mouse cursor selecting a wire with a red arrow and a red '1', and the bottom one shows the completed multicore with labels AP35, AP36, and MC7, and a 'Complete!' box.</p>	<p><input checked="" type="checkbox"/> Multicore creation</p> <ol style="list-style-type: none"> ① Select wire ② Click Multicore (Twist, Shield, Coax) button on the Home tab

III _ Circuit object properties

1. Connector properties
2. Wire properties

1. Connector properties

Screen	Description																																																															
<p>The screenshot shows the 'Connector Property' dialog box with the following data:</p> <table border="1"> <thead> <tr> <th>Classify</th> <th>Value</th> <th>Visible</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>P21</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Library</td> <td>2005372-2</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Harness code</td> <td>A</td> <td></td> </tr> <tr> <td>Option</td> <td></td> <td></td> </tr> <tr> <td>Description</td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Vender Part Number</th> <th>Part Name</th> <th>HKMC Part Number</th> <th>PIN</th> <th>Symbol</th> </tr> </thead> <tbody> <tr> <td>2005372-2</td> <td></td> <td></td> <td>6</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>1-967616-1</td> <td></td> <td></td> <td>6</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>936268-1</td> <td></td> <td></td> <td>6</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>936289-5</td> <td></td> <td></td> <td>6</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>902219-00</td> <td></td> <td></td> <td>6</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>MG651044</td> <td></td> <td></td> <td>6</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>MG651439</td> <td></td> <td></td> <td>6</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>PB625-06027</td> <td></td> <td></td> <td>6</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>	Classify	Value	Visible	Name	P21	<input checked="" type="checkbox"/>	Library	2005372-2	<input type="checkbox"/>	Harness code	A		Option			Description			Vender Part Number	Part Name	HKMC Part Number	PIN	Symbol	2005372-2			6	<input checked="" type="checkbox"/>	1-967616-1			6	<input checked="" type="checkbox"/>	936268-1			6	<input checked="" type="checkbox"/>	936289-5			6	<input checked="" type="checkbox"/>	902219-00			6	<input checked="" type="checkbox"/>	MG651044			6	<input checked="" type="checkbox"/>	MG651439			6	<input checked="" type="checkbox"/>	PB625-06027			6	<input checked="" type="checkbox"/>	<p>Connector properties</p> <ol style="list-style-type: none"> After selecting the connector, click mouse RMB, click Properties button Enter connector property information: Name, Library, Harness code, Option... <ul style="list-style-type: none"> ▪ Refresh button: When there is a data change managed by the project, it is updated with the latest data ▪ Pin mapping: Connector pin shape information and library pin connection function (Library pin connection required) ▪ Connector geometry: Validate design information by visualizing library symbols and wire dimensions and colors <ul style="list-style-type: none"> - Condition : <ul style="list-style-type: none"> Connector Library Connection: <input type="checkbox"/> Pin mapping: <input type="checkbox"/> Connector Library Connection: <input type="checkbox"/> Wire dimensions, color settings: <input type="checkbox"/> ▪ Graphic: Edit Graphic Information Save: Click Save button or 'Enter' key
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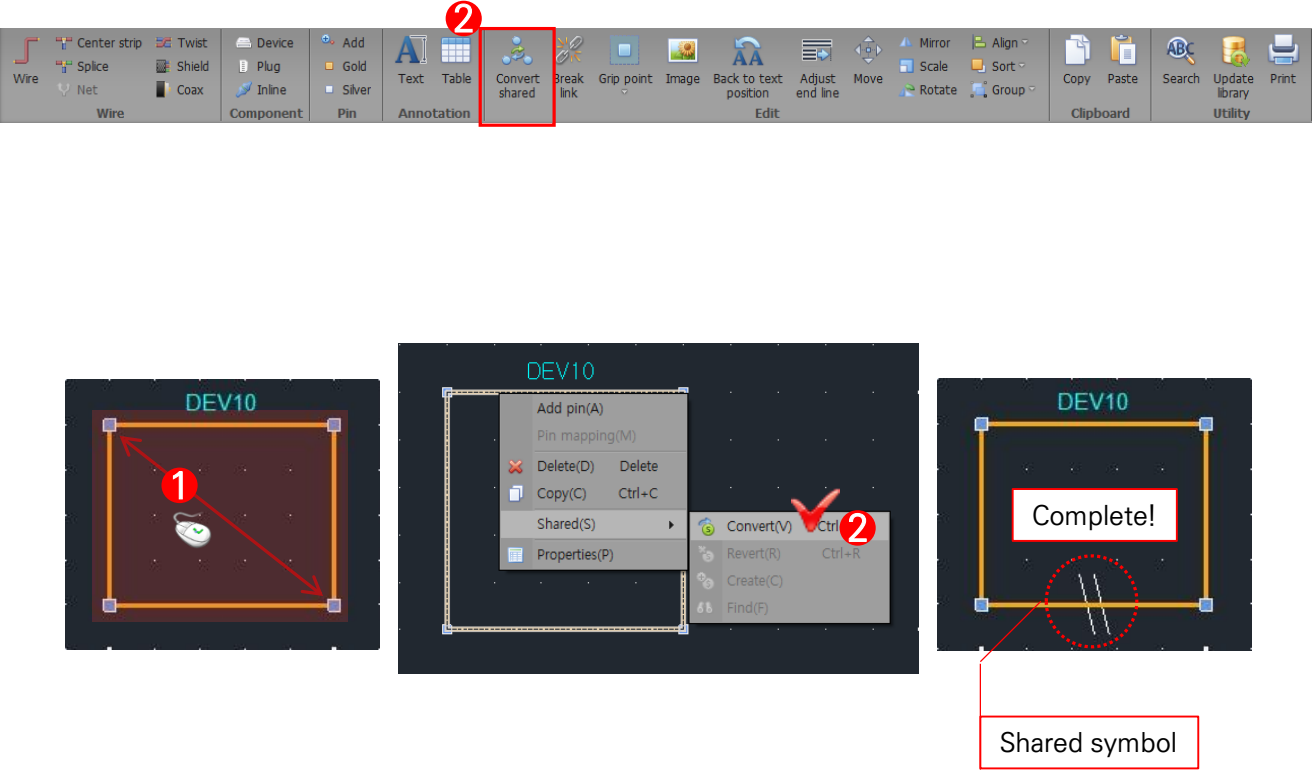
2. Wire properties

Screen	Description
<p>The screenshot illustrates the process of configuring wire properties. It shows a circuit board with wires labeled PIN1 through PIN6. A context menu is open over one of the wires, with the 'Properties(P)' option highlighted. The 'Wire Property' dialog box is open, displaying the 'General' tab. The fields are filled with: Name (empty), Library (AVSS), Material (AVSS), CSA (0.3), Color (B), Harness code (A), Option (AP2), and Description (empty). A search window is also open, showing a list of materials with 'AVSS' entered in the search field. A 'Keyword function' label points to the search results.</p>	<p>■ Wire properties</p> <ol style="list-style-type: none"> After selecting the wire, click mouse RMB, click Properties button Enter connector wire information: Name, Library, Color, Harness code, Option... <ul style="list-style-type: none"> ▪ Refresh button: When there is a data change managed by the project, it is updated with the latest data ▪ Graphic: Edit Graphic Information Save: Click Save button or 'Enter' key

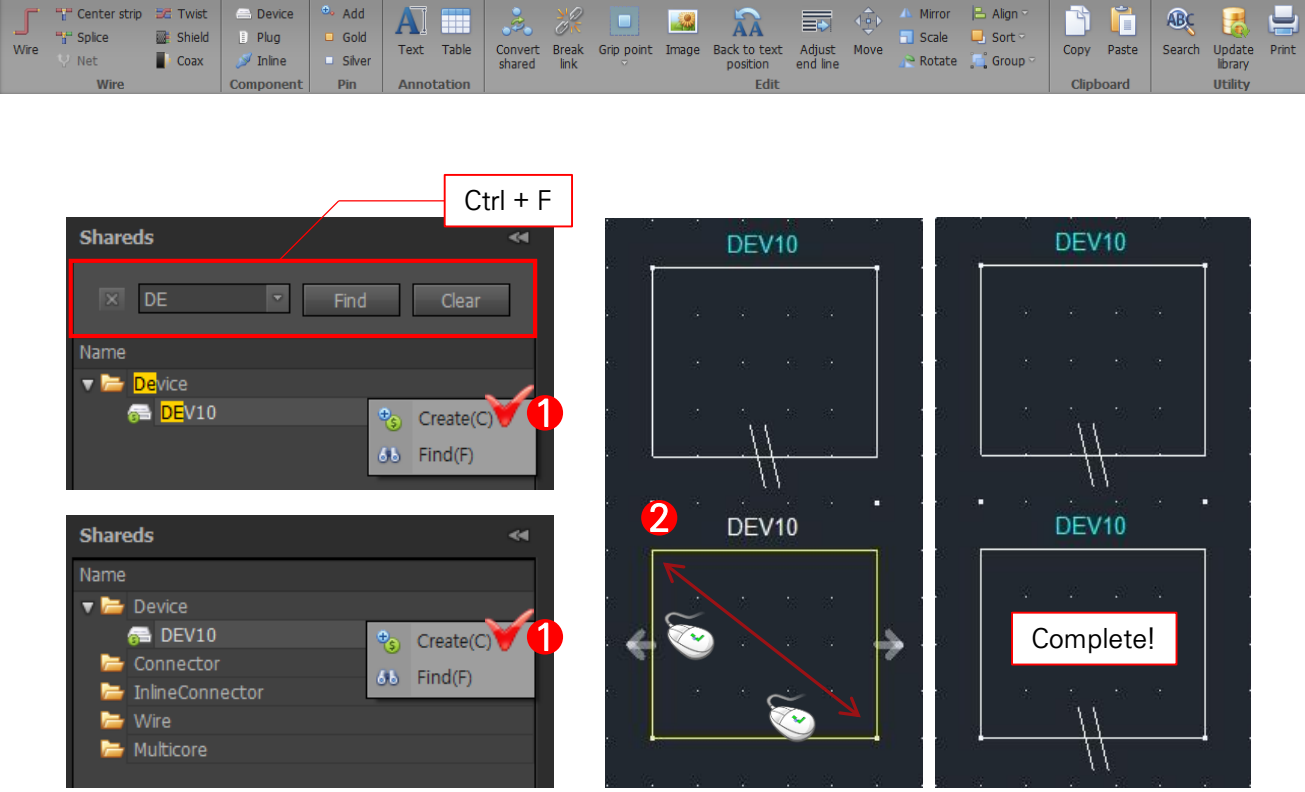
IV _ Shared circuit object creation

1. Shared device & connector conversion
2. Shared device & connector creation(1)
3. Shared device & connector creation(2)
4. Shared wire conversion
5. Shared wire creation(1)
6. Shared wire creation(2)
7. Shared multicore conversion
8. Shared multicore creation

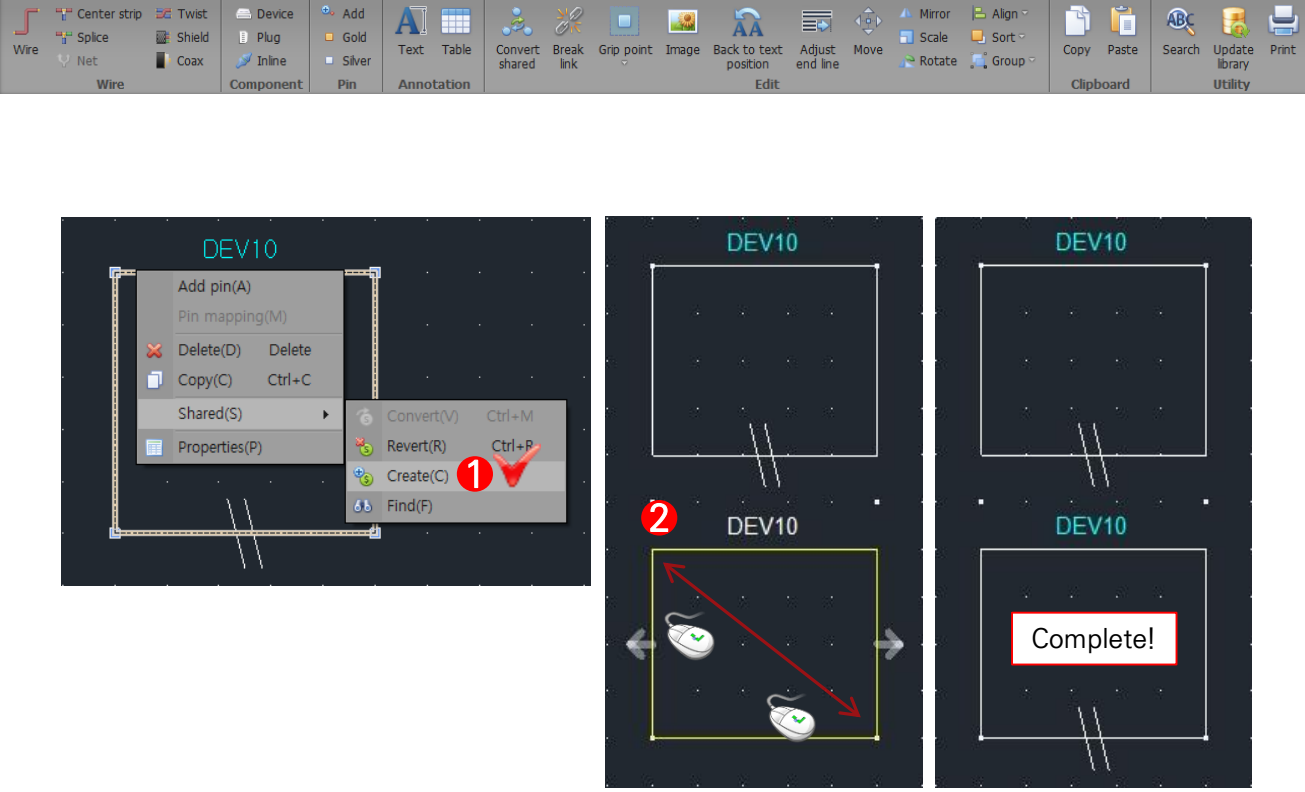
1. Shared device & connector conversion

Screen	Description
 <p>The screenshot displays the software's Home tab ribbon. The 'Convert shared' button is highlighted with a red box and a red '2' above it. Below the ribbon are three panels illustrating the conversion process:</p> <ol style="list-style-type: none"> A circuit object labeled 'DEV10' is selected, indicated by a red arrow and a red '1'. A context menu is open for 'DEV10', and the 'Convert(V)' option is checked with a red checkmark and a red '2' above it. The circuit object 'DEV10' is shown with a 'Complete!' label and a red dashed circle around the converted symbol, which is labeled 'Shared symbol' in a red box. 	<p>Shared device & connector conversion</p> <ol style="list-style-type: none"> ① Select Device, Plug, Inline connector ② Convert: <ul style="list-style-type: none"> ▪ Click Convert shared button on the Home tab ▪ After selecting the circuit object, click mouse RMB, click Shared, Convert button

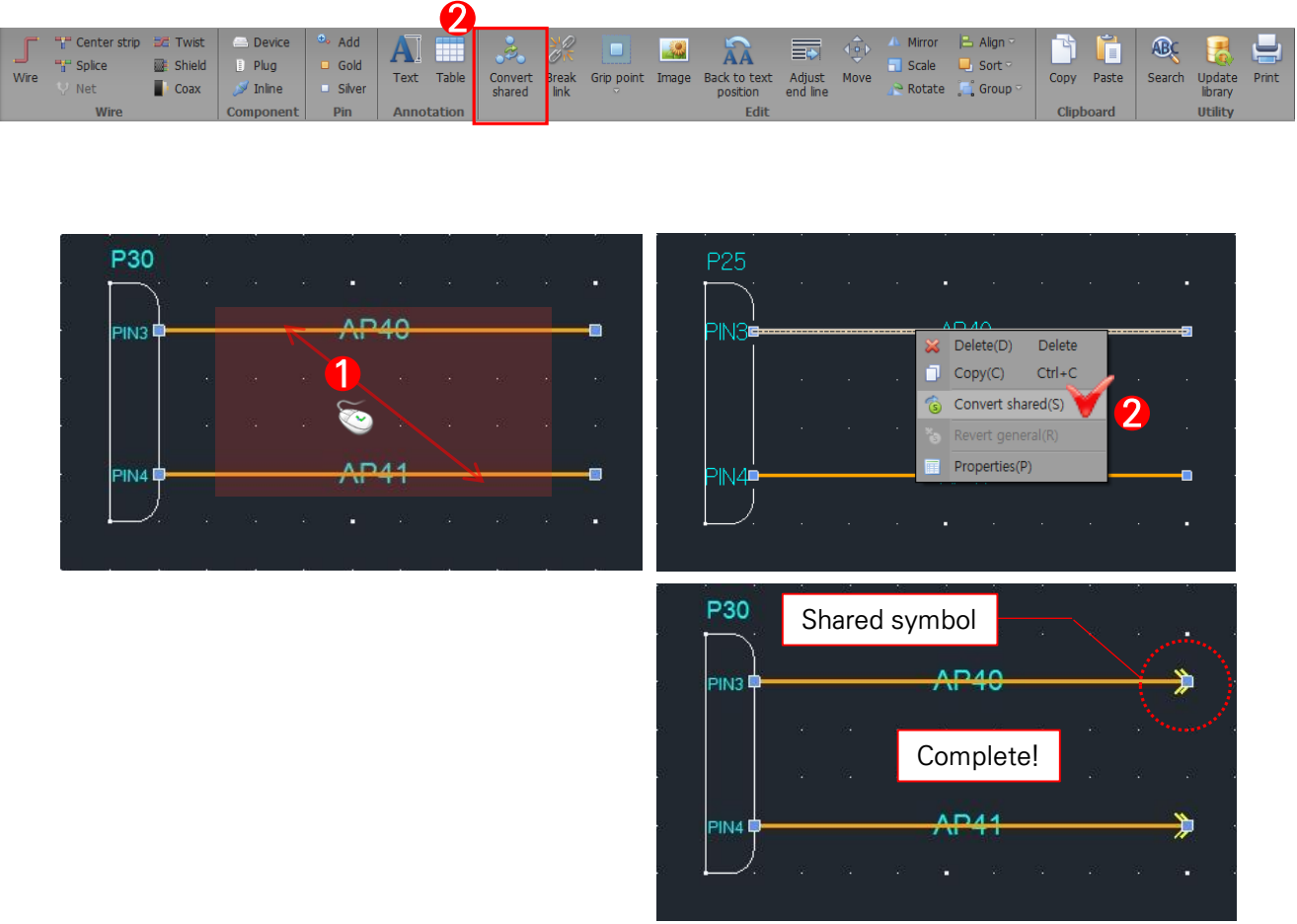
2. Shared devices & connector creation(1)

Screen	Description
 <p>The screenshot displays the software's 'Shares' panel and two circuit diagrams. The 'Shares' panel is open to the 'Device' folder, and 'DEV10' is selected. A red box highlights the search bar with 'DE' and a 'Find' button. A red arrow points to the 'Create(C)' button. The circuit diagrams show 'DEV10' components being placed on a board. A red arrow labeled '2' indicates mouse drag in the diagram. A 'Complete!' box is shown in the final diagram.</p>	<p>Shared device & connector creation(1)</p> <ol style="list-style-type: none"> ① Create: <ul style="list-style-type: none"> ▪ Double click shared circuit tree. ▪ After selecting shared circuit tree, click mouse RMB, click Create button. ② Mouse drag in diagram <ul style="list-style-type: none"> ▪ To search for names: 'Ctrl + F' Key

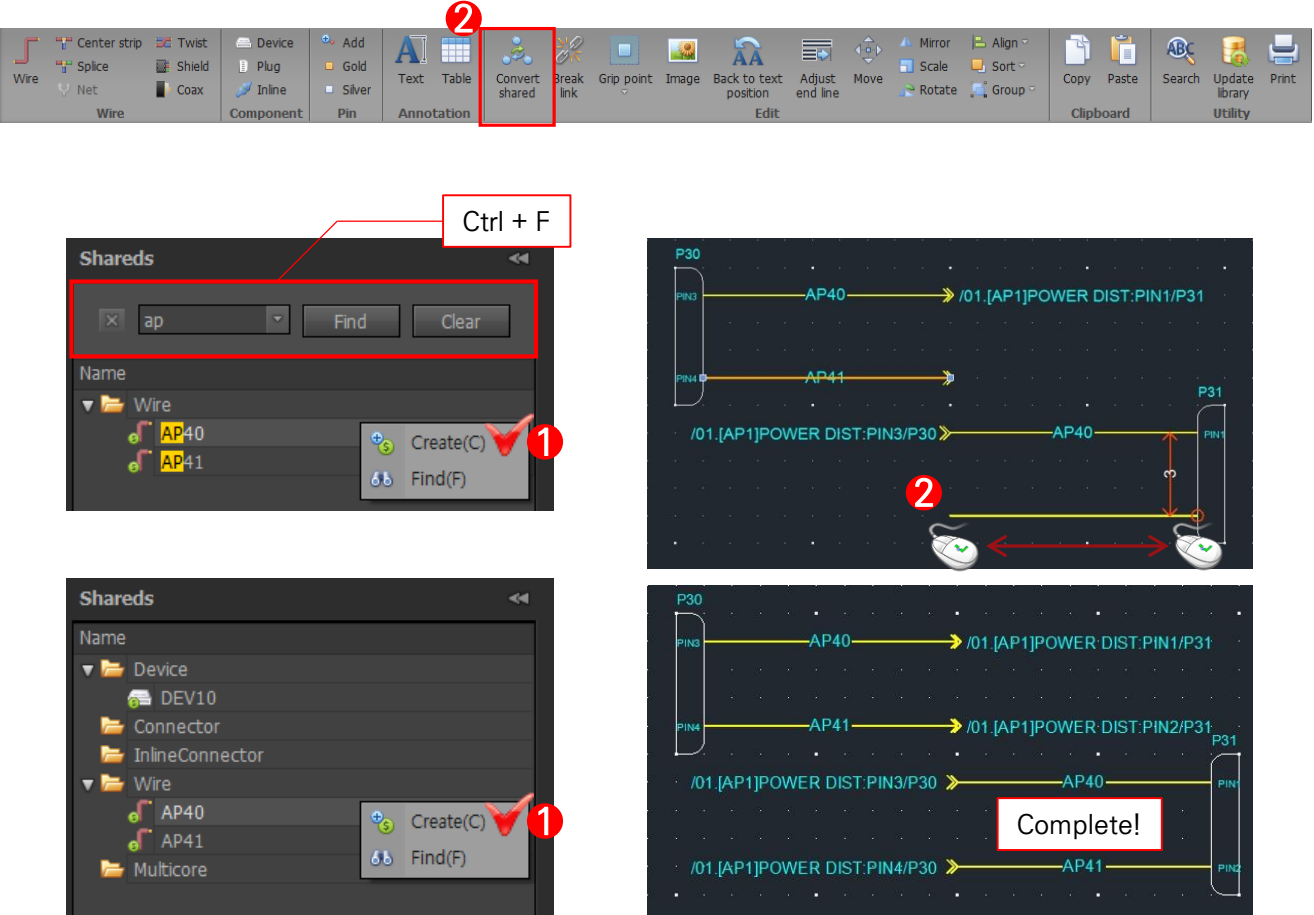
3. Shared devices & connector creation(2)

Screen	Description
 <p>The screenshot displays the software's toolbar and a context menu. The context menu is open over a 'DEV10' object, with the 'Shared(S)' option selected, revealing a sub-menu where the 'Create(C)' option is highlighted with a red '1' and a checkmark. Below this, three sequential diagrams illustrate the process: 1) A 'DEV10' object is selected. 2) A mouse is dragged to create a new 'DEV10' object, indicated by a red '2' and a red arrow. 3) The final state shows two 'DEV10' objects connected by a line, with a 'Complete!' label in a red box.</p>	<p>Shared device & connector creation(2)</p> <ol style="list-style-type: none"> ① After selecting shared circuit object, click mouse RMB, click Shared, Create button. ② Mouse drag in diagram

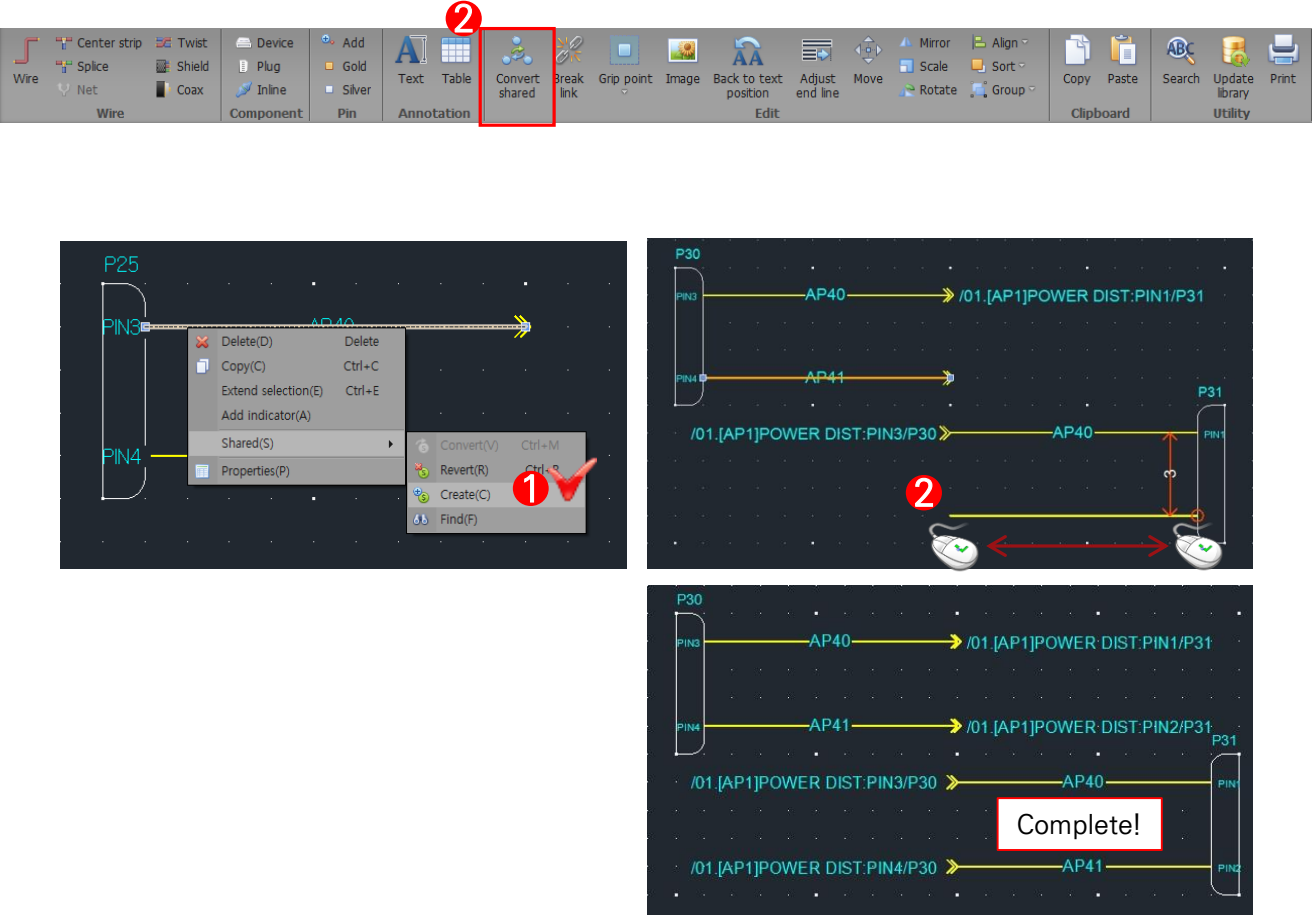
4. Shared wire conversion

Screen	Description
 <p>The screenshot shows the software interface with the 'Convert shared' button highlighted in red and labeled with a '2'. Below are three panels illustrating the process:</p> <ol style="list-style-type: none"> Panel 1: A circuit board with wires AP40 and AP41 connected to pins PIN3 and PIN4. A red circle '1' highlights the wires. Panel 2: A context menu over the wires with 'Convert shared(S)' highlighted in red and labeled with a '2'. Panel 3: The final state where the wires are labeled 'Shared symbol' and 'Complete!'. 	<p>Shared wire conversion</p> <ol style="list-style-type: none"> ① Select wire (Multiple selection) ② Convert: <ul style="list-style-type: none"> ▪ Click Convert shared button on the Home tab ▪ After selecting the circuit object, click mouse RMB, click Shared, Convert button

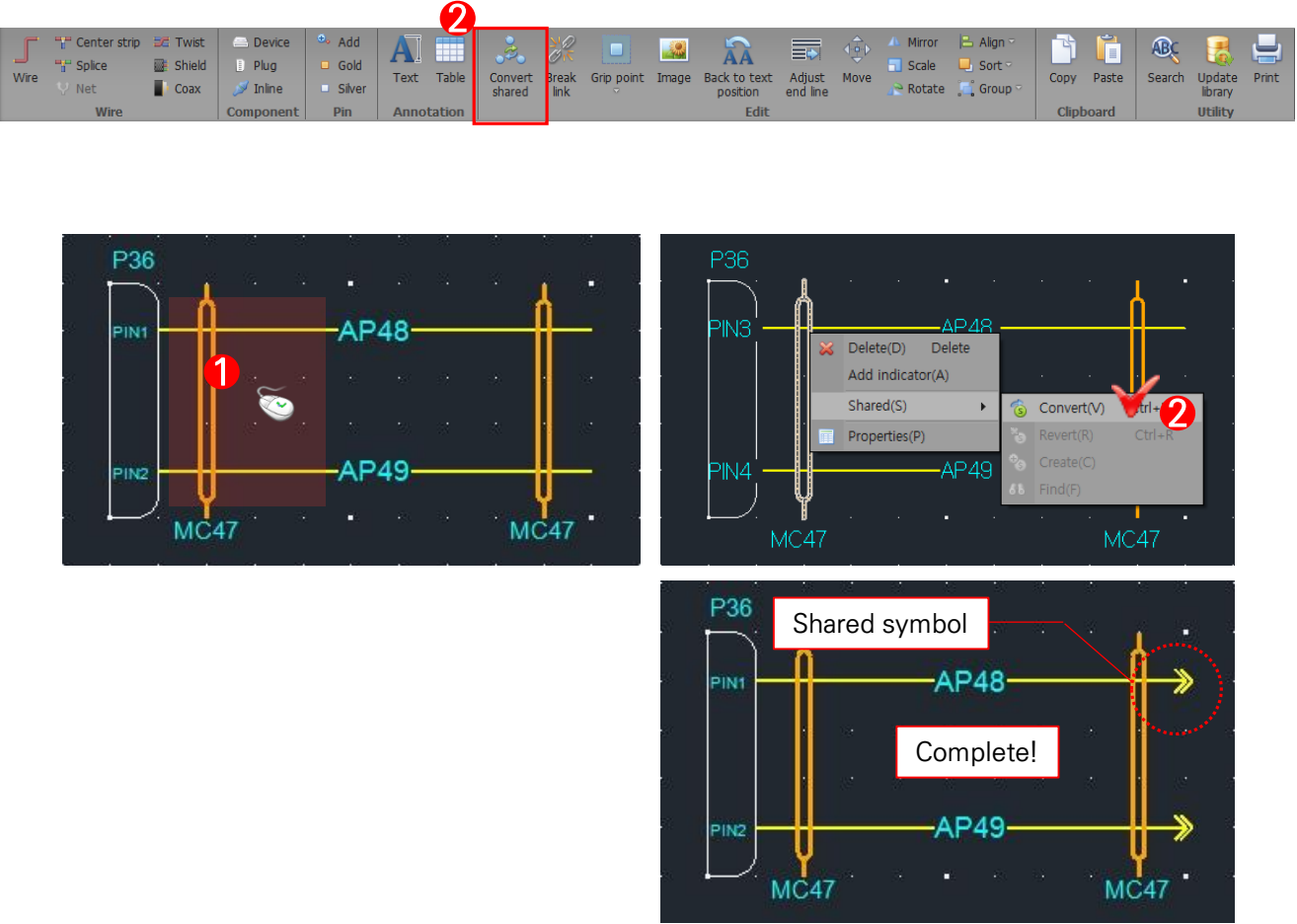
5. Shared wire creation(1)

Screen	Description
 <p>The screenshot displays the software's ribbon with the 'Convert shared' button highlighted by a red box and the number '2'. Below the ribbon, the 'Shares' panel is shown with a search box containing 'ap' and a 'Find' button. A red box highlights the search area, with a callout 'Ctrl + F'. The 'Wire' folder in the 'Shares' panel is expanded, showing 'AP40' and 'AP41' with a 'Create(C)' button highlighted by a red box and the number '1'. To the right, two diagrams illustrate the wire creation process. The top diagram shows a mouse drag (2) between pins P30 and P31. The bottom diagram shows the completed wire with a 'Complete!' label.</p>	<p>■ Shared wire creation(1)</p> <ol style="list-style-type: none"> ① Create: <ul style="list-style-type: none"> ▪ Double click shared circuit tree. ▪ After selecting shared circuit tree, click mouse RMB, click Create button. ② Mouse drag in diagram <ul style="list-style-type: none"> ▪ To search for names: 'Ctrl + F' Key

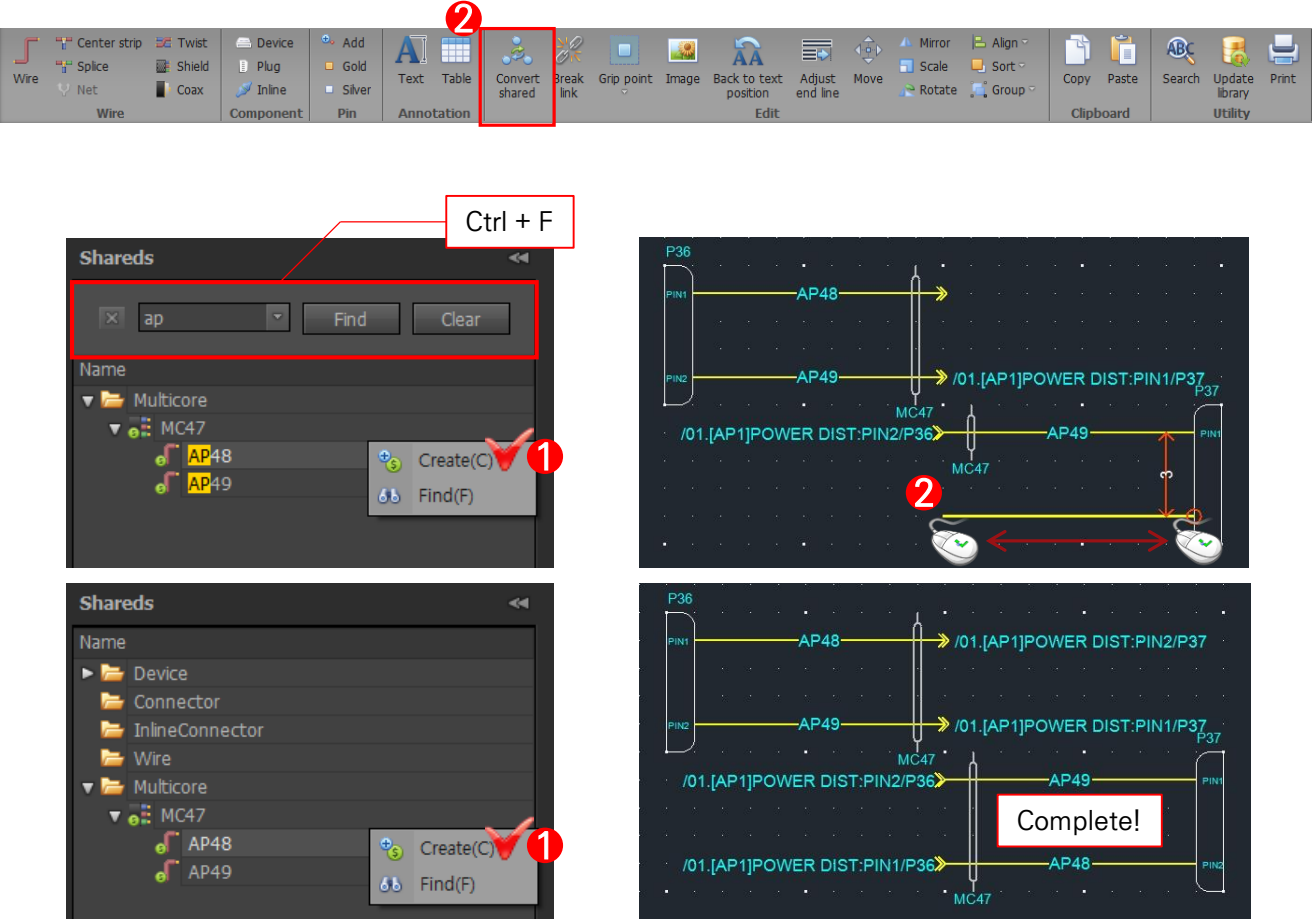
6. Shared wire creation(2)

Screen	Description
 <p>The screenshot displays the software's toolbar with the 'Convert shared' button highlighted by a red box and a red '2'. Below the toolbar are three panels illustrating the process:</p> <ul style="list-style-type: none"> Panel 1: A context menu is open over a wire, with the 'Convert(V)' option highlighted. A red '1' and a checkmark are next to it. Panel 2: A mouse is shown dragging a wire from a source pin to a target pin. A red '2' and a red double-headed arrow indicate the drag action. Panel 3: The final state shows the wire successfully connected to the target pin, with a 'Complete!' label in a white box. 	<p>Shared wire creation(2)</p> <ol style="list-style-type: none"> ① After selecting shared circuit object, click mouse RMB, click Shared, Create button. ② Mouse drag in diagram

7. Shared multicore conversion

Screen	Description
 <p>The screenshot shows the software's Home tab with the 'Convert shared' button highlighted. Below are three panels illustrating the conversion process:</p> <ol style="list-style-type: none"> Select multicore (Shield, Twist, Coax...) Convert: <ul style="list-style-type: none"> Click Convert shared button on the Home tab After selecting the circuit object, click mouse RMB, click Shared, Convert button <p>The final panel shows the object as a 'Shared symbol' with a red dashed circle and the text 'Complete!'.</p>	<p>Shared multicore conversion</p> <ol style="list-style-type: none"> Select multicore (Shield, Twist, Coax...) Convert: <ul style="list-style-type: none"> Click Convert shared button on the Home tab After selecting the circuit object, click mouse RMB, click Shared, Convert button

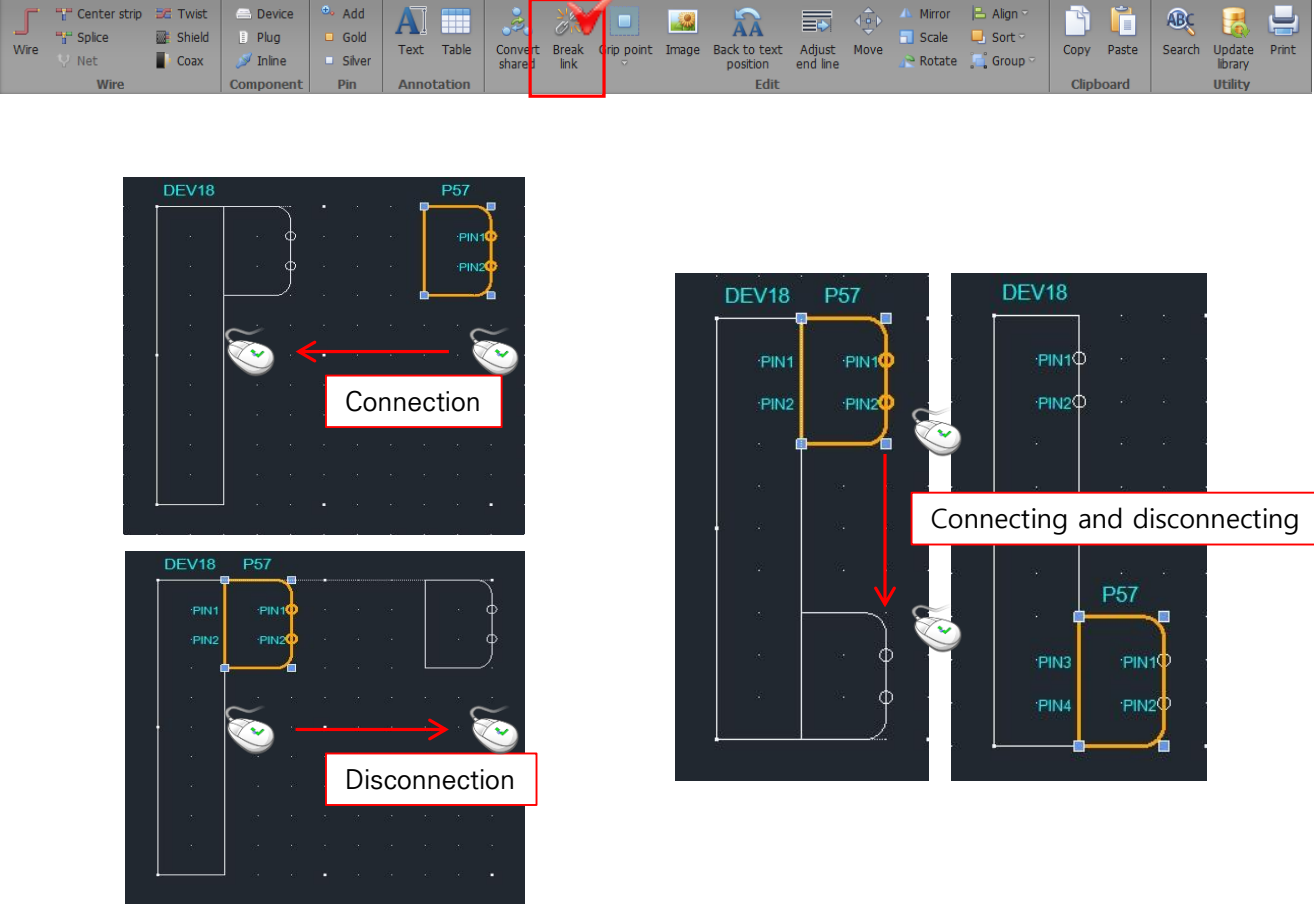
8. Shared multicore creation

Screen	Description
 <p>The screenshot displays the software's toolbar with the 'Convert shared' button highlighted and labeled '2'. Below it, the 'Shares' panel shows a search for 'ap' with results for 'AP48' and 'AP49' under the 'MC47' folder. The 'Create(C)' button is highlighted with a red checkmark and labeled '1'. Two circuit diagrams illustrate the process: the first shows a mouse cursor over the 'Create(C)' button and a red double-headed arrow indicating a mouse drag in the diagram, labeled '2'; the second shows the final state with a 'Complete!' label.</p>	<p>■ Shared multicore creation</p> <ol style="list-style-type: none"> ① Create: <ul style="list-style-type: none"> ▪ Double click shared circuit tree. ▪ After selecting shared circuit tree, click mouse RMB, click Create button. ② Mouse drag in diagram <ul style="list-style-type: none"> ▪ To search for names: 'Ctrl + F' Key

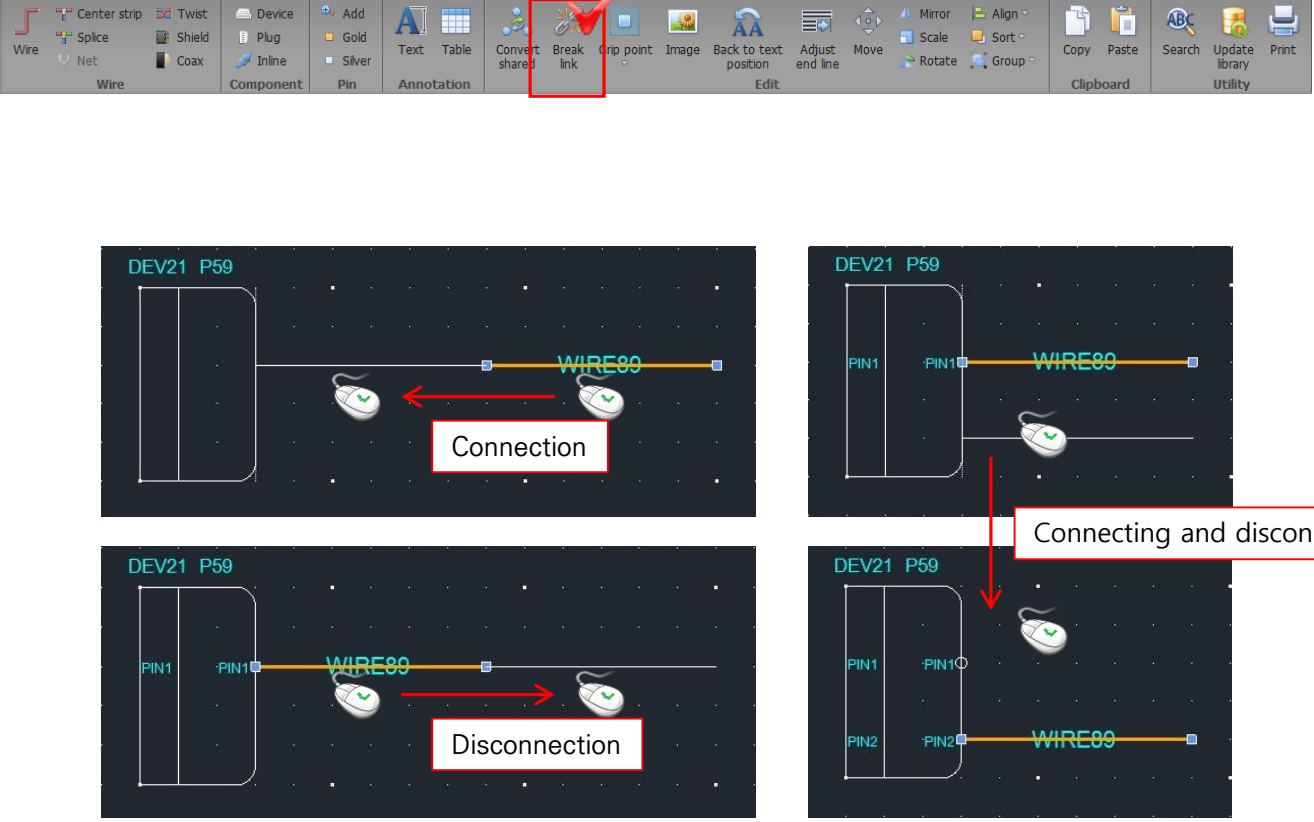
V _ Circuit object control

1. Connector & Device connection or disconnection
2. Wire & Connector connection or disconnection
3. Shared wire & connector connection or disconnection
4. Tracking shared wire connection

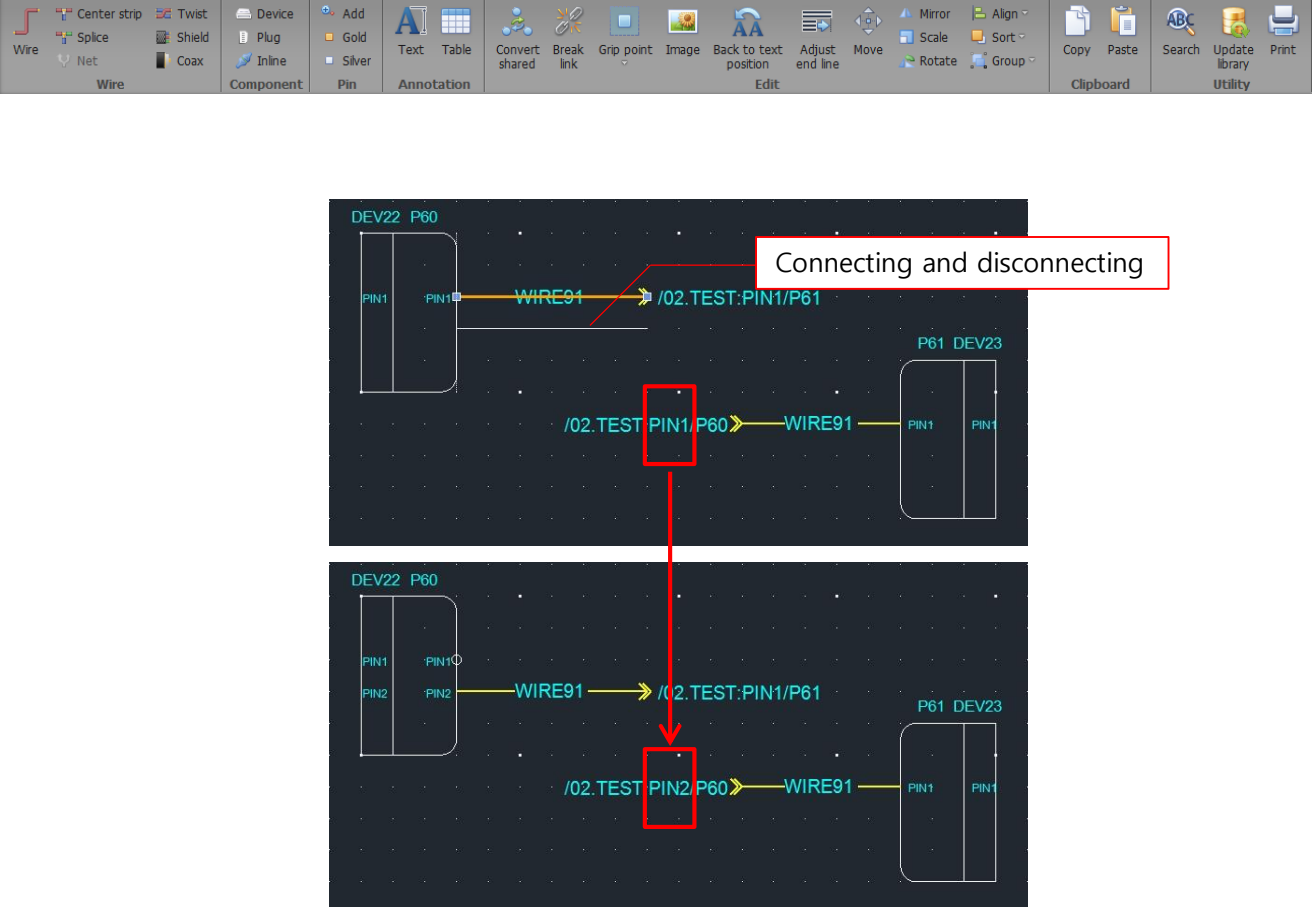
1. Connector & Device connection or disconnection

Screen	Description
 <p>The screenshot displays the software's toolbar with the 'Break Link' button highlighted in red. Below the toolbar, three diagrams illustrate the process of connecting and disconnecting circuit components. The first diagram shows a mouse cursor clicking on a wire between DEV18 and P57, with a red arrow pointing to a 'Connection' label. The second diagram shows the wire being broken, with a red arrow pointing to a 'Disconnecting' label. The third diagram shows the wire being reconnected, with a red arrow pointing to a 'Reconnection' label.</p>	<h2>■ Connector & Device connection or disconnection</h2> <ul style="list-style-type: none"> ▪ Connection: After selecting the circuit object, mouse drag in diagram ▪ Disconnection : <ul style="list-style-type: none"> - After selecting the circuit object, 'Shift' + Mouse drag in diagram - After selecting the circuit object, click Break Link button

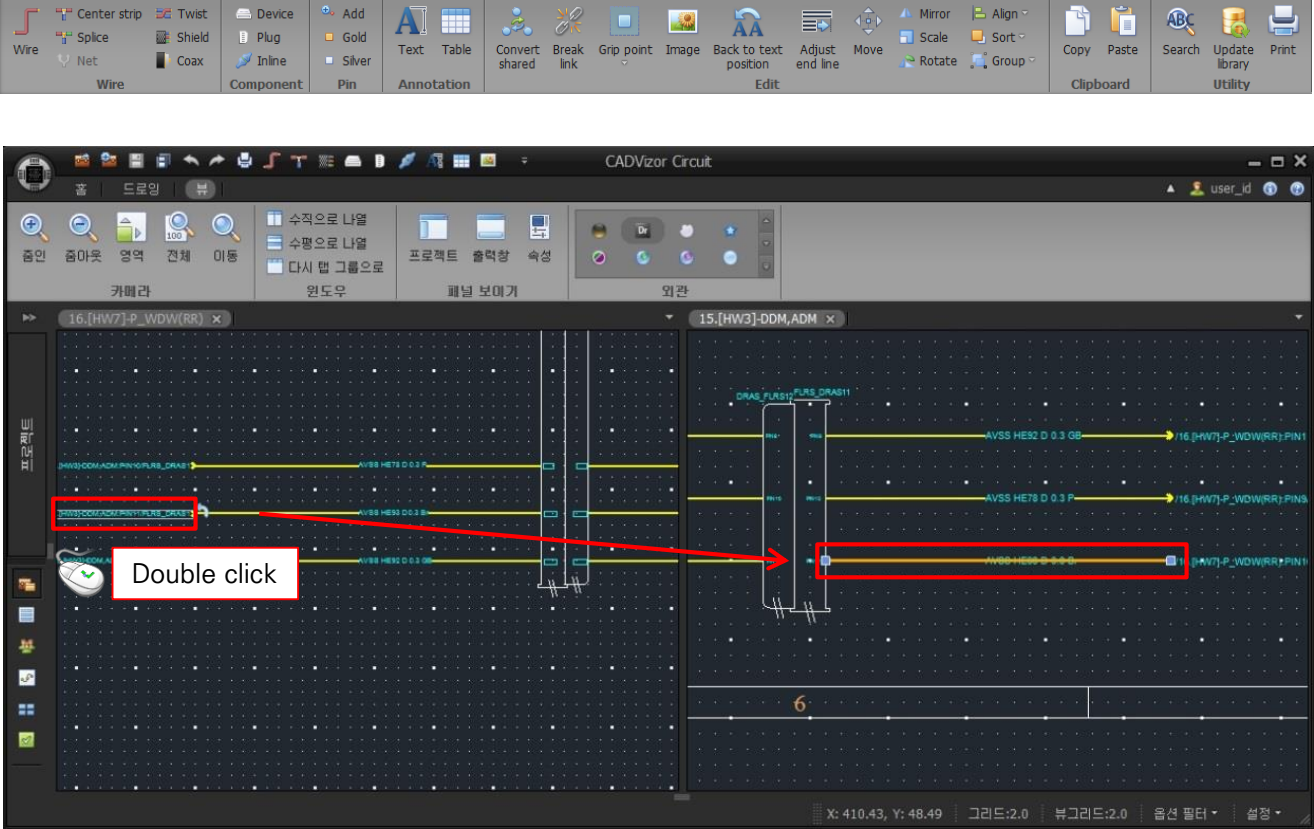
2. Wire & Connector connection or disconnection

Screen	Description
 <p>The screenshot shows a software toolbar with the 'Break link' button highlighted in red. Below the toolbar are four diagrams illustrating wire connection and disconnection:</p> <ul style="list-style-type: none"> Top-left diagram: A wire labeled 'WIRE89' is being connected to a component labeled 'DEV21 P59'. A red arrow points from the wire to the component, and a box labeled 'Connection' is below it. Top-right diagram: The wire 'WIRE89' is disconnected from 'PIN1'. A red arrow points from the wire to a box labeled 'Connecting and disconnecting'. Bottom-left diagram: The wire 'WIRE89' is being reconnected to 'PIN1'. A red arrow points from the wire to the component, and a box labeled 'Disconnection' is below it. Bottom-right diagram: The wire 'WIRE89' is disconnected from 'PIN1' and connected to 'PIN2'. A red arrow points from the wire to the component, and a box labeled 'Connecting and disconnecting' is below it. 	<h3>■ Wire & Connector connection or disconnection</h3> <ul style="list-style-type: none"> ▪ Connection: After selecting the circuit object, mouse drag in diagram ▪ Disconnection : <ul style="list-style-type: none"> - After selecting the circuit object, 'Shift' + Mouse drag in diagram - After selecting the circuit object, click Break Link button

3. Shared wire & connector connection or disconnection

Screen	Description
 <p>The screenshot displays the software's toolbar and two panels illustrating the shared wire connection process. The top panel shows a wire labeled 'WIRE91' connecting 'DEV22 P60' (PIN1) to 'P61 DEV23' (PIN1). A red box highlights the connection point, and a callout box says 'Connecting and disconnecting'. The bottom panel shows the same setup but with 'DEV22 P60' (PIN2) connected to 'P61 DEV23' (PIN1) via 'WIRE91', with a red box highlighting the new connection point.</p>	<p>Shared wire & connector connection or disconnection</p> <ul style="list-style-type: none"> Same as normal wire connection and disconnection method Automatic update of connection information of real-time wire and pin

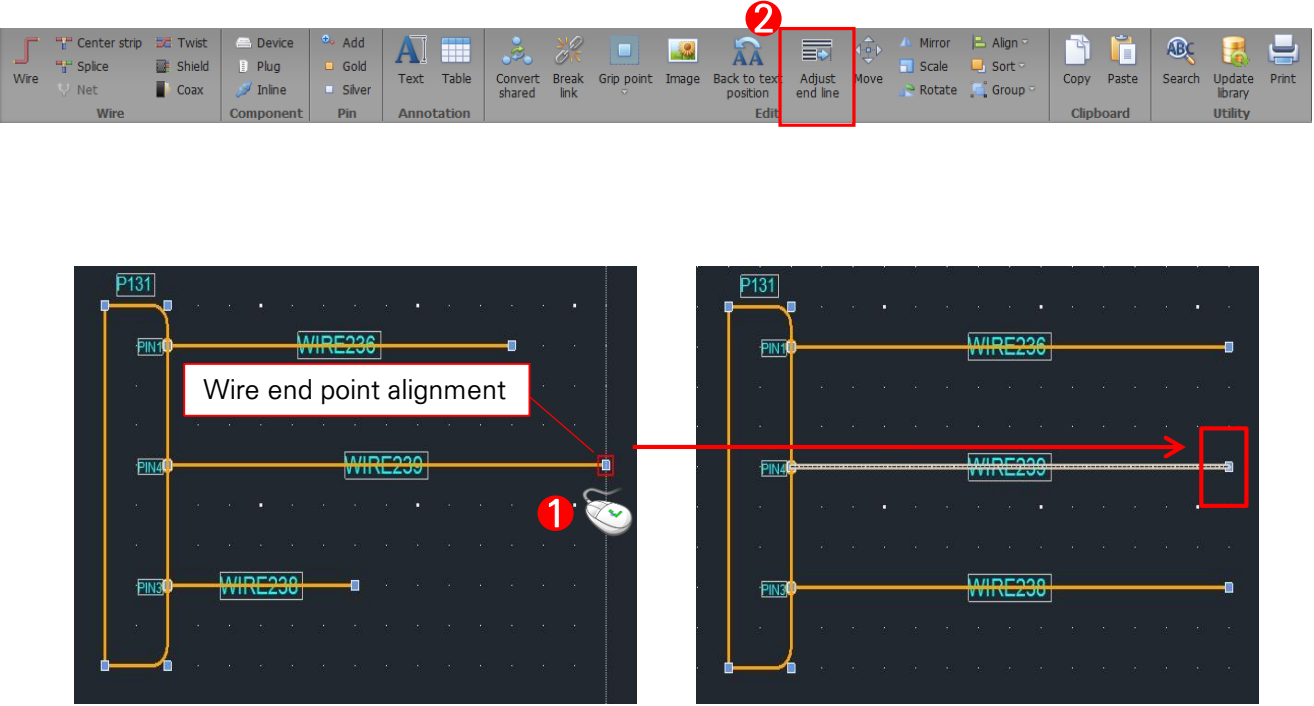
4. Tracking shared wire connection

Screen	Description
 <p>The screenshot displays the CADVIZOR Circuit software interface. At the top, there is a comprehensive toolbar with icons for various functions such as Wire, Component, Annotation, Edit, Clipboard, and Utility. Below the toolbar, the main workspace is divided into two panels. The left panel, titled '16.[HW7]-P_WDW(RR)', shows a circuit diagram with a wire labeled 'AVSS HE32 D 0.3 GB' highlighted in red. A red arrow points from this wire to the right panel, '15.[HW3]-ODM,ADM', where the same wire is also highlighted in red. A callout box with a mouse icon and the text 'Double click' points to the highlighted wire in the left panel. The bottom status bar shows coordinates (X: 410.43, Y: 48.49) and grid settings (Grid: 2.0, View Grid: 2.0).</p>	<p>Tracking shared wire connection</p> <ul style="list-style-type: none"> Double click on share wire information to activate the connection information diagram.

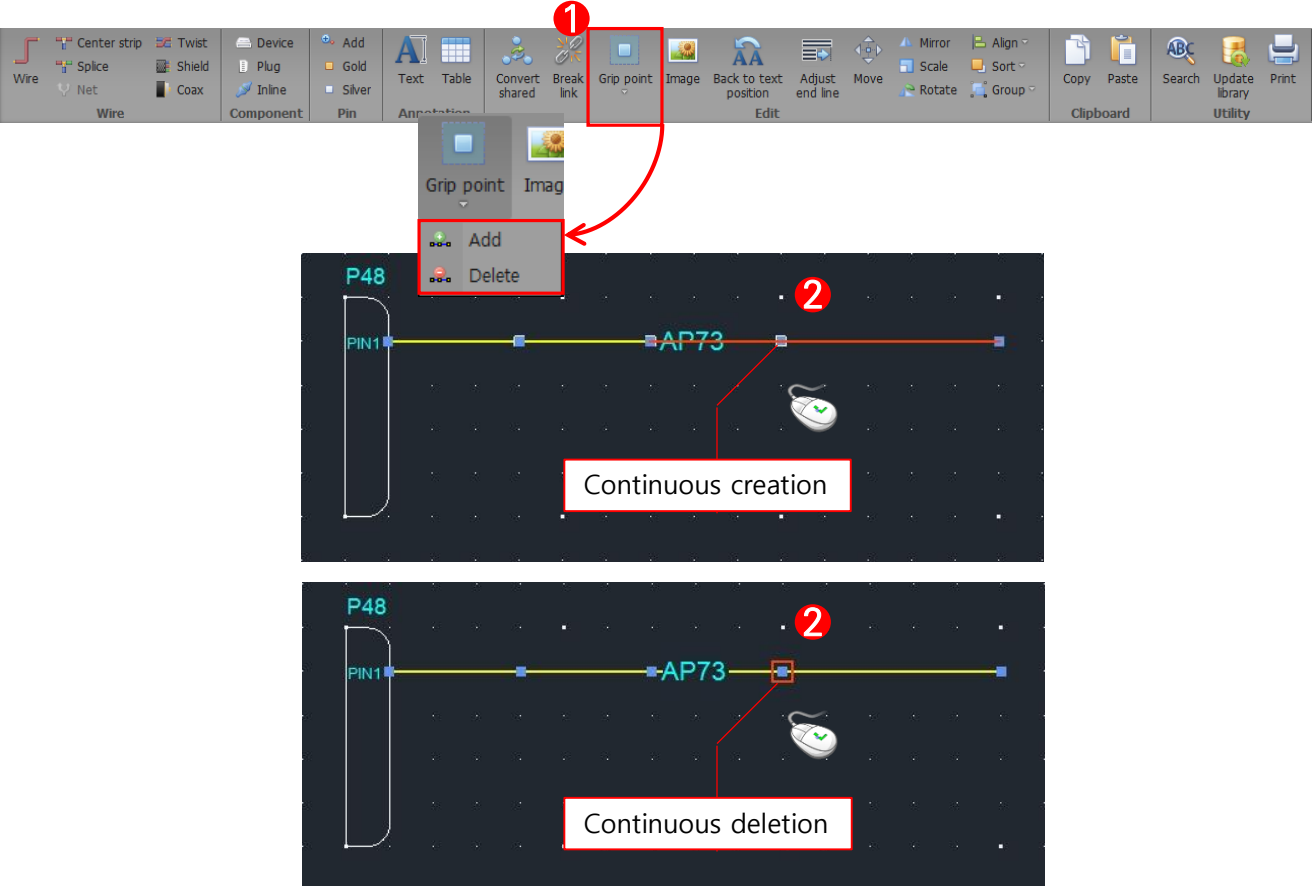
VI — Utility function

1. Wire end point alignment
2. Add and remove grip points
3. Option filter

1. Wire end point alignment

Screen	Description
 <p>The screenshot displays the software's Home tab ribbon. The 'Adjust end line' button is highlighted with a red box and a red circle containing the number '2'. Below the ribbon are two side-by-side PCB layout images. The left image shows a wire labeled 'WIRE230' with a red box around its end point and a red circle with the number '1' next to a mouse cursor. A red arrow points from this box to the right image, where the wire's end point is now aligned with a vertical dashed line, and a red box highlights the end point.</p>	<p>▣ Wire end point alignment</p> <ol style="list-style-type: none"> ① Select multiple wire ② Click Adjust end line button on the Home tab

2. Add and remove grip points

Screen	Description
 <p>The screenshot displays the software's Home tab ribbon. A red box highlights the 'Grip point' button, with a red circle and the number '1' next to it. A red arrow points from this button to a dropdown menu. The dropdown menu has two options: 'Add' and 'Delete', both highlighted with red boxes. Below the ribbon are two diagrams on a dark grid background. The top diagram, labeled 'Continuous creation', shows a yellow wire with a blue square grip point at position 'AP73'. A mouse cursor is positioned over this point, and a red circle with the number '2' is next to it. A white box with the text 'Continuous creation' is at the bottom. The bottom diagram, labeled 'Continuous deletion', shows the same wire and grip point, but the mouse cursor is now over the grip point, and a red circle with the number '2' is next to it. A white box with the text 'Continuous deletion' is at the bottom. Labels 'P48' and 'PIN1' are visible on the left side of both diagrams.</p>	<h3>■ Add and remove grip points</h3> <ol style="list-style-type: none"> ① Click Grip point button on the Home tab ② Add: Create a grip point at the wire position point you want to add. (Continuous creation) <p>Delete: Delete the grip point at the wire position point you want to delete. (Continuous deletion)</p>

3. Option filter

Screen	Description
<p>The screenshots show the following steps:</p> <ol style="list-style-type: none"> In the Preferences window at the bottom right, select Option filter. <ul style="list-style-type: none"> Selection option filter: Show options and standard circuit Input option filter: Show only circuits passed through an option expression Increase brightness: ▲(+), Decrease brightness: ▼(-) Cancel: 'Esc' Key 	<p>Option filter</p> <ol style="list-style-type: none"> In the Preferences window at the bottom right, select Option filter <ul style="list-style-type: none"> Selection option filter: Show options and standard circuit Input option filter: Show only circuits passed through an option expression Increase brightness: ▲(+), Decrease brightness: ▼(-) <ul style="list-style-type: none"> Cancel: 'Esc' Key

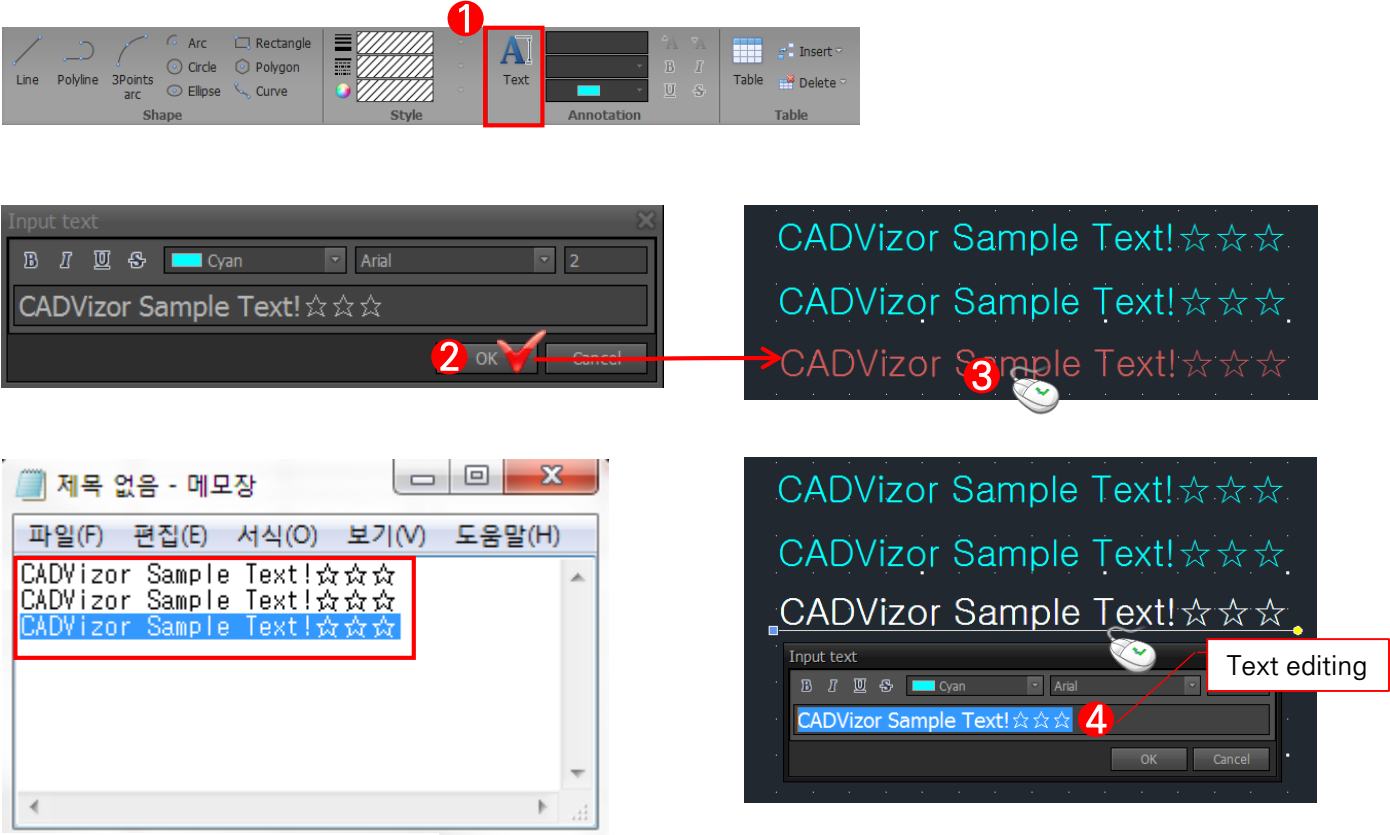
VII — Graphic object creation

1. Generic object creation
2. Insert text
3. Insert table
4. Insert image

1. Generic object creation

Screen	Description
<p>The screenshot shows the software's ribbon interface with the 'Shape' tab selected. A red box highlights the 'Geometry' button. Below the ribbon are seven panels illustrating the creation of various geometric objects:</p> <ul style="list-style-type: none"> Line: A horizontal line is drawn with a length of 9.9. A red circle with the number 1 is next to it. Polyline: A stepped line is drawn with a total length of 4. A red circle with the number 2 is next to it. Circle: A circle is drawn with a radius of 3. A red circle with the number 3 is next to it. Rectangle: A rectangle is drawn with width w=5.961 and height h=3.93. A red circle with the number 4 is next to it. Polygon: A triangle is drawn. A red circle with the number 5 is next to it. Curve: A curved line is drawn. A red circle with the number 6 is next to it. Arc: An arc is drawn with an angle of 134.0 degrees. A red circle with the number 7 is next to it. 	<p>Generic object creation</p> <ol style="list-style-type: none"> Click Geometry button on the Home tab Mouse drag in diagram, enter numerical values <ul style="list-style-type: none"> Cancel: 'Esc' Key Repeat: 'Space' Key

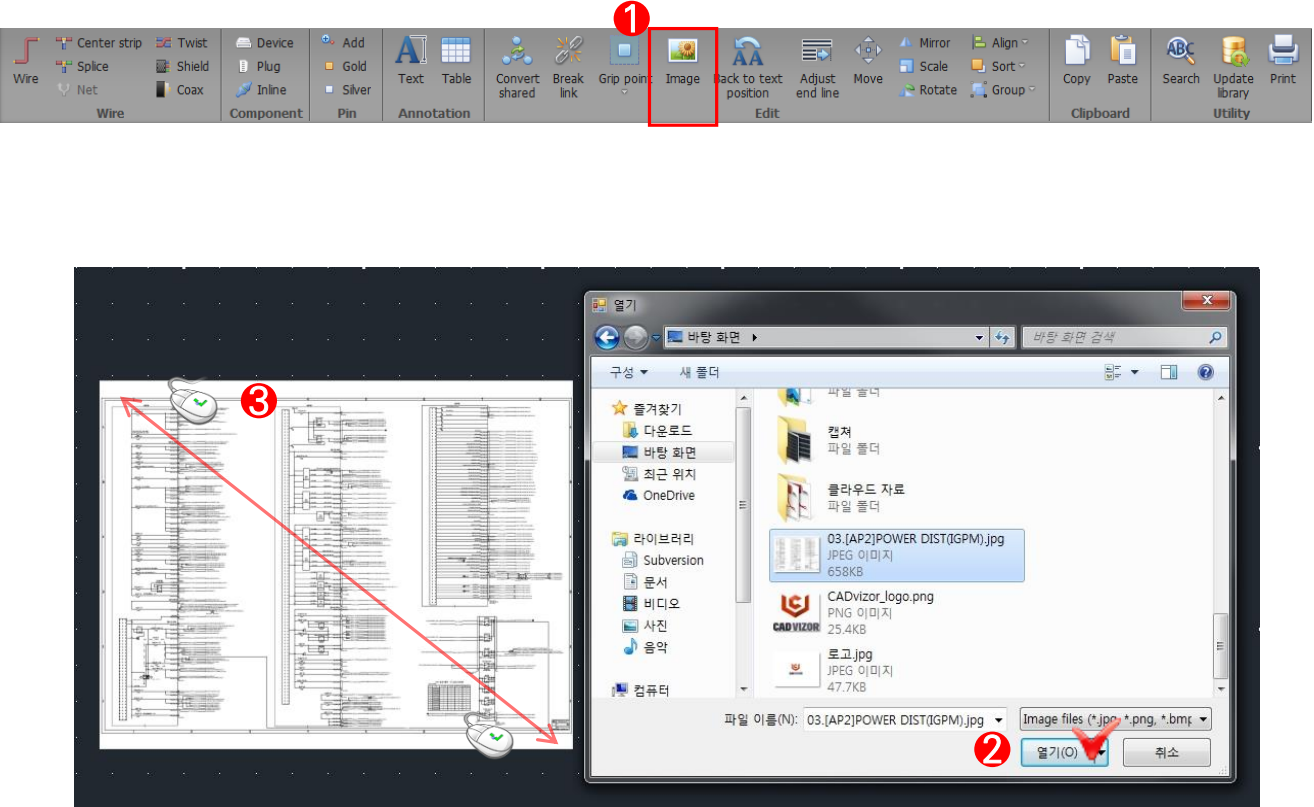
2. Insert text

Screen	Description
 <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>Text editing</p> <ul style="list-style-type: none"> Clipboard copy / paste function ('Ctrl + C' Key / 'Ctrl + V' Key) 	<p>Insert text</p> <ol style="list-style-type: none"> Click Text button on the Home tab Enter text and font settings Create text at the mouse position point When editing text, double-click the mouse <ul style="list-style-type: none"> Clipboard copy / paste function 'Ctrl + C' Key / 'Ctrl + V' Key

3. Insert table

Screen	Description
<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>Move up key(↑)</p> <p>Move left key(←)</p> <p>Enter Key</p> <p>Move right key(→)</p> <p>Move down key(↓)</p> <ul style="list-style-type: none"> Clipboard copy / paste function ('Ctrl + C' Key / 'Ctrl + V' Key) 	<p>Insert table</p> <ol style="list-style-type: none"> Click Table button on the Home tab Enter number of rows and columns Mouse drag in diagram When editing text, Click the mouse <ul style="list-style-type: none"> Move up key(↑), Move down key(↓), Move left key(←), Move right key(→), Enter Key. <ul style="list-style-type: none"> Clipboard copy / paste function 'Ctrl + C' Key / 'Ctrl + V' Key

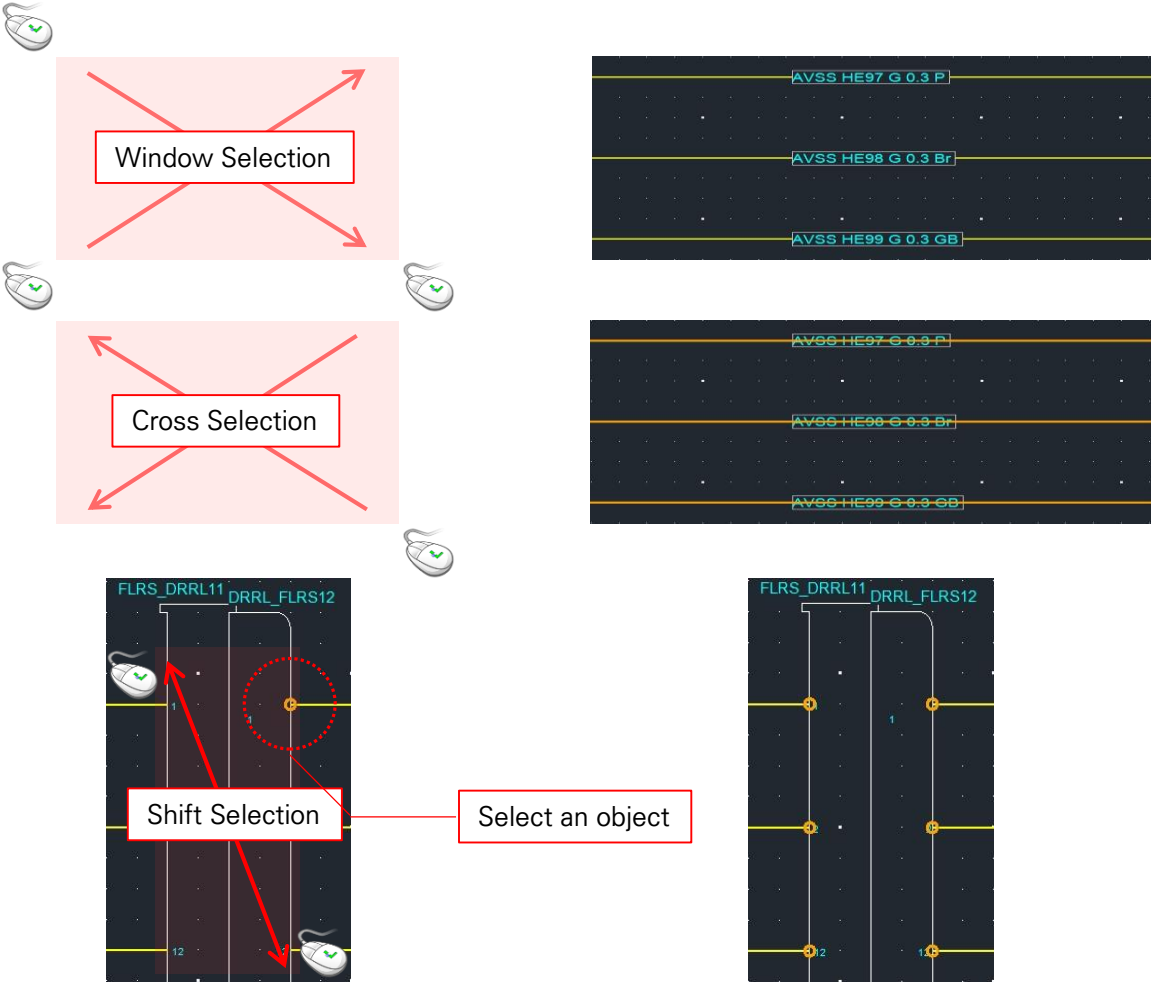
4. Insert image

Screen	Description
 <p>The screenshot displays the software's ribbon interface. The 'Image' button is highlighted with a red box and a red circle containing the number 1. Below this, a file explorer window is open, showing a file named '03.[AP2]POWER DIST(IGPM).jpg' selected. A red circle with the number 2 is next to the '열기(O)' button. A red arrow points from the file explorer to a diagram area where a mouse cursor is shown, with a red circle and the number 3 next to it.</p>	<p>Insert image</p> <ol style="list-style-type: none"> ① Click Image button on the Home tab ② Open image file ③ Mouse drag in diagram <ul style="list-style-type: none"> ▪ Clipboard copy / paste function 'Ctrl + C' Key / 'Ctrl + V' Key

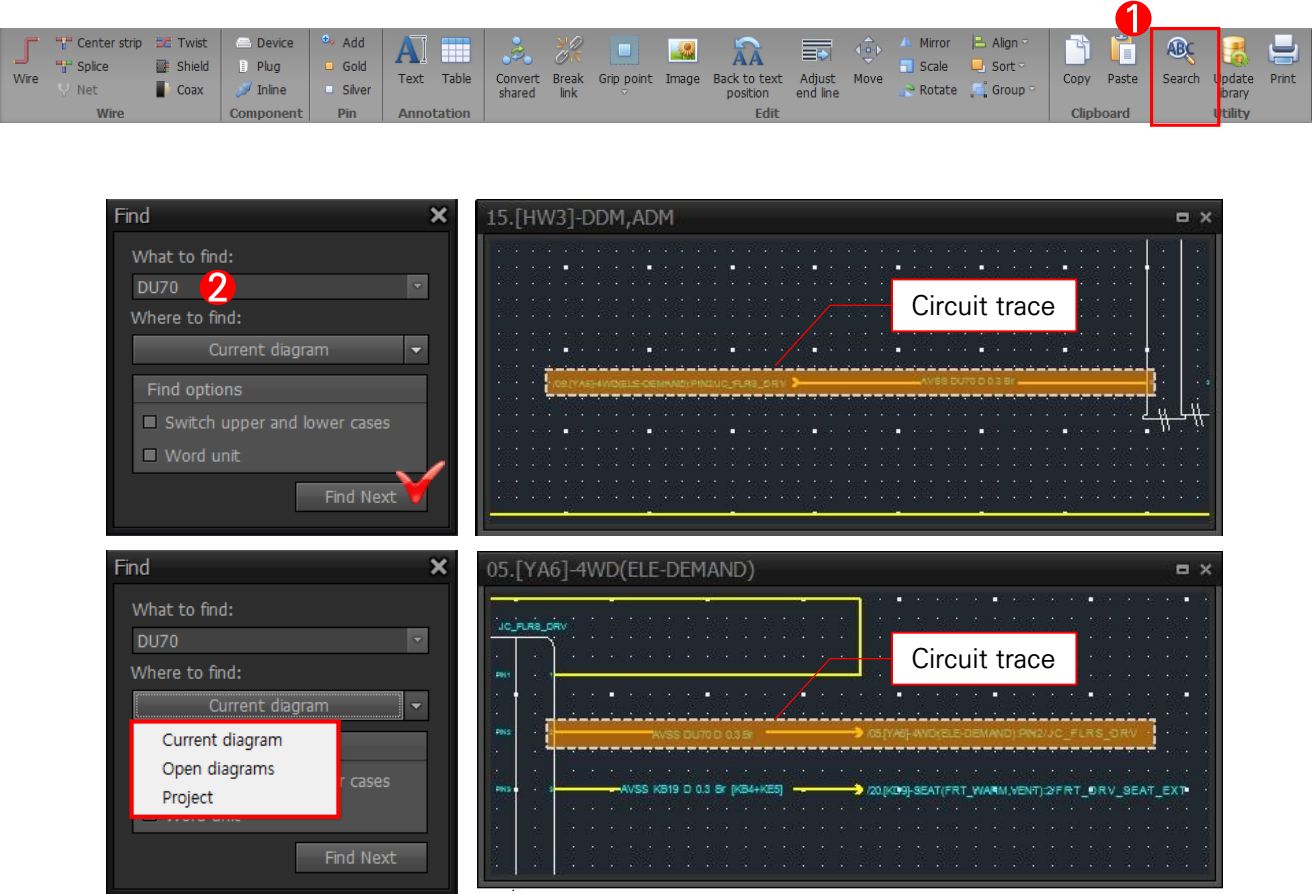
VIII — Editing graphic objects

1. Object selection
2. Find circuit
3. Mirror, scale, rotation, align, arrangement
4. Group grouping, release
5. Copy and paste objects
6. Paste clipboard
7. Edit object style
8. Edit text style

1. Object selection

Screen	Description
 <p>The diagram illustrates three selection methods:</p> <ul style="list-style-type: none"> Window Selection: A red rectangle with arrows pointing right, indicating selection of objects within the rectangle. Cross Selection: A red rectangle with arrows pointing left, indicating selection of objects within the rectangle and intersecting objects. Shift Selection: A red rectangle with arrows pointing to two objects, one of which is highlighted with a red dashed circle. A callout box labeled "Select an object" points to the highlighted object. 	<p>Object selection</p> <ul style="list-style-type: none"> Window Selection: Select objects contained within mouse rectangle area (Right direction) Cross Selection: Select objects that are contained within the mouse rectangle area and intersecting objects (Left direction) Shift Selection: Select an object, press and hold the 'Shift' key while dragging the mouse, the same circuit object is selected.

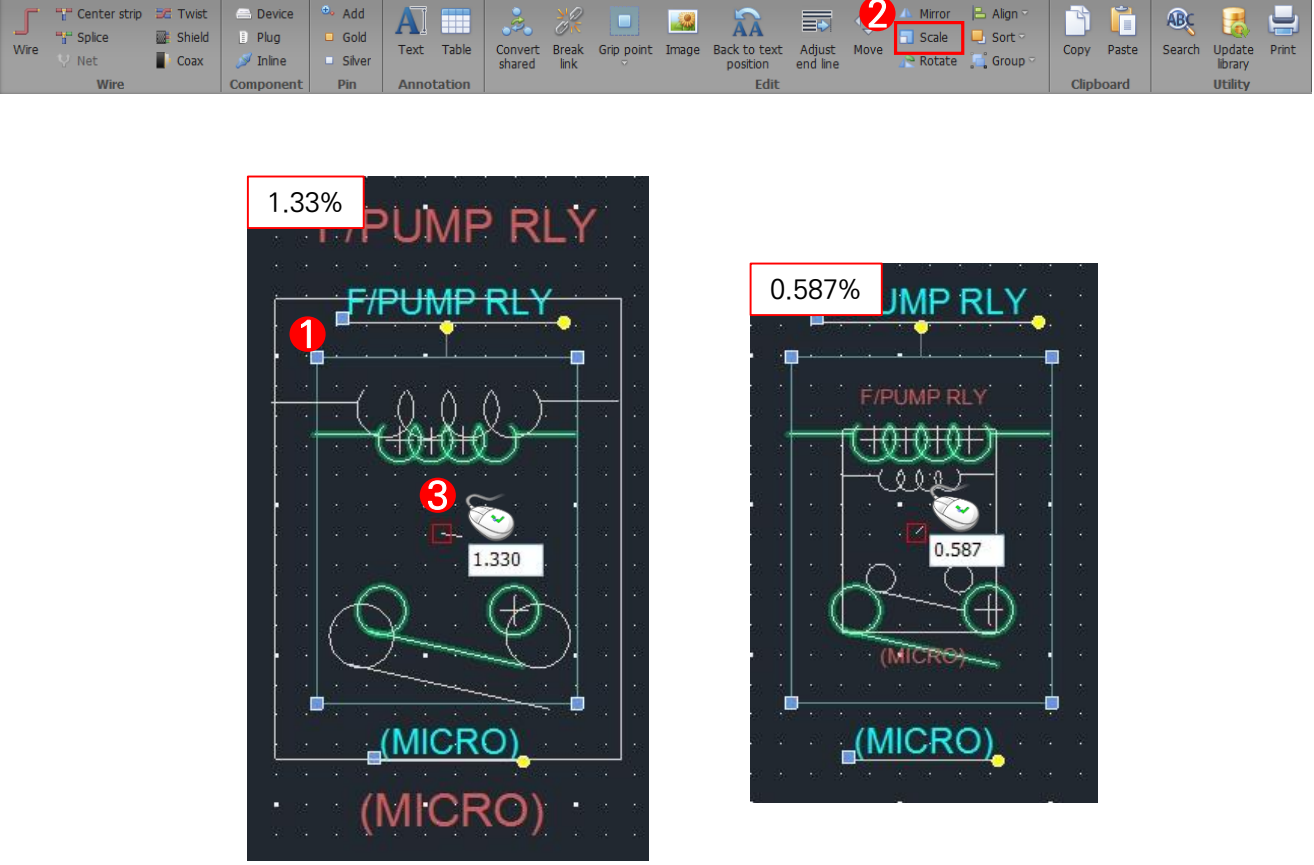
2. Find circuit

Screen	Description
	<p data-bbox="2007 339 2211 372">Find circuit</p> <ol data-bbox="1753 449 2237 578" style="list-style-type: none"> <li data-bbox="1753 449 2237 511">Click Search button on the Home tab 'Ctrl + F' Key <li data-bbox="1753 544 2237 578">Enter circuit name <ul data-bbox="1783 611 2165 863" style="list-style-type: none"> <li data-bbox="1783 611 2165 735">Where to find: Current diagram Open diagrams Project <li data-bbox="1783 768 2165 863">Find options: Switch upper and lower cases Word unit

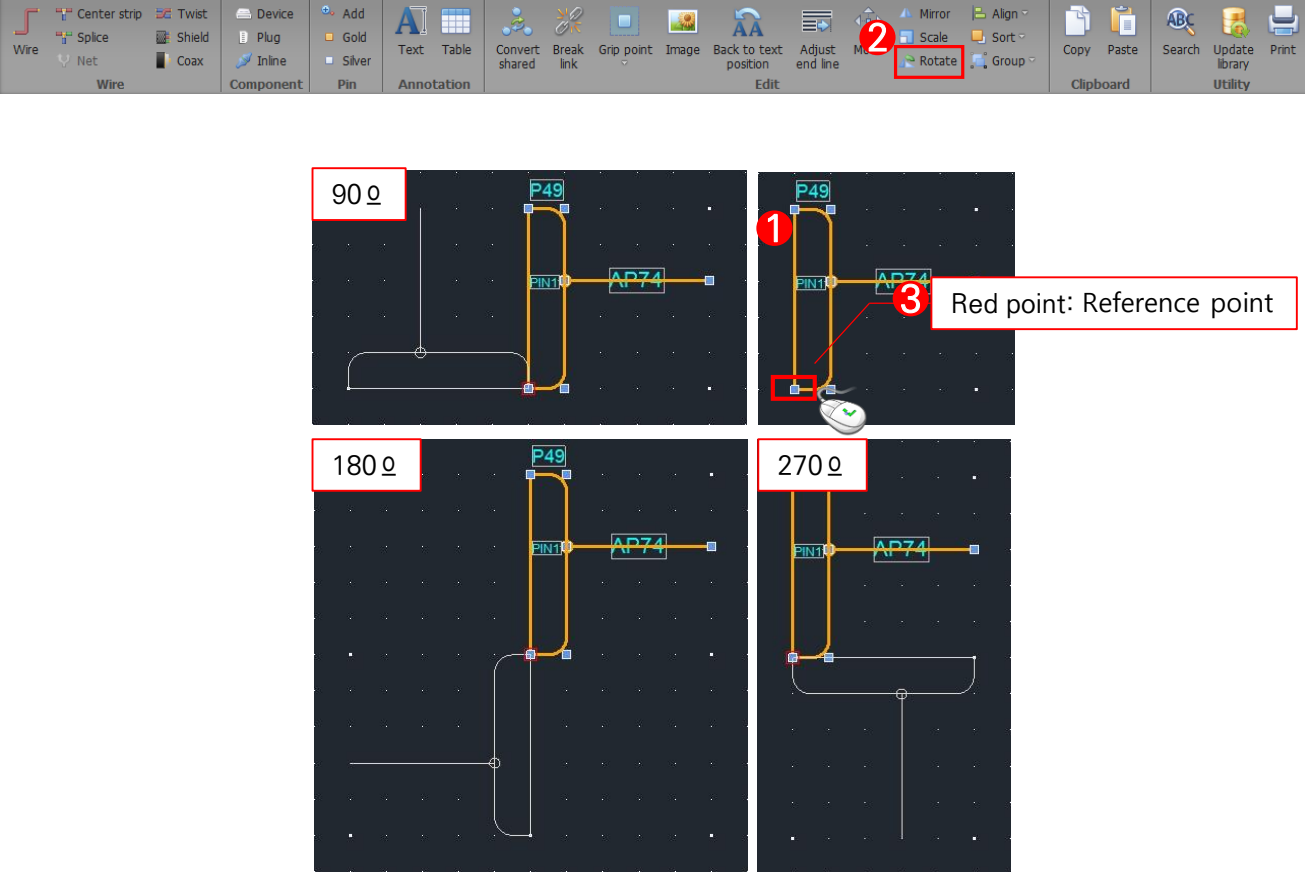
3. Mirror, scale, rotation, align, arrangement

Screen	Description
<p>The screenshot shows the software's Home tab toolbar with the 'Mirror' button highlighted. Below the toolbar, three panels demonstrate the mirroring process: <ul style="list-style-type: none"> Panel 1: A circuit object (a yellow wire with components P49, PIN1, and AP74) is selected, indicated by a red circle '1'. Panel 2: A red vertical line is drawn through the object, labeled 'Red line axis' with a circled '3'. This line is identified as the 'Y axis'. Panel 3: The mirrored object is shown to the right of the red line, with the original object to the left. The red line is now labeled 'X axis'. </p>	<p>Mirror</p> <ol style="list-style-type: none"> ① Select circuit object ② Click Mirror button on the Home tab ③ Select red line axis <ul style="list-style-type: none"> ▪ Cancel: 'Esc' Key

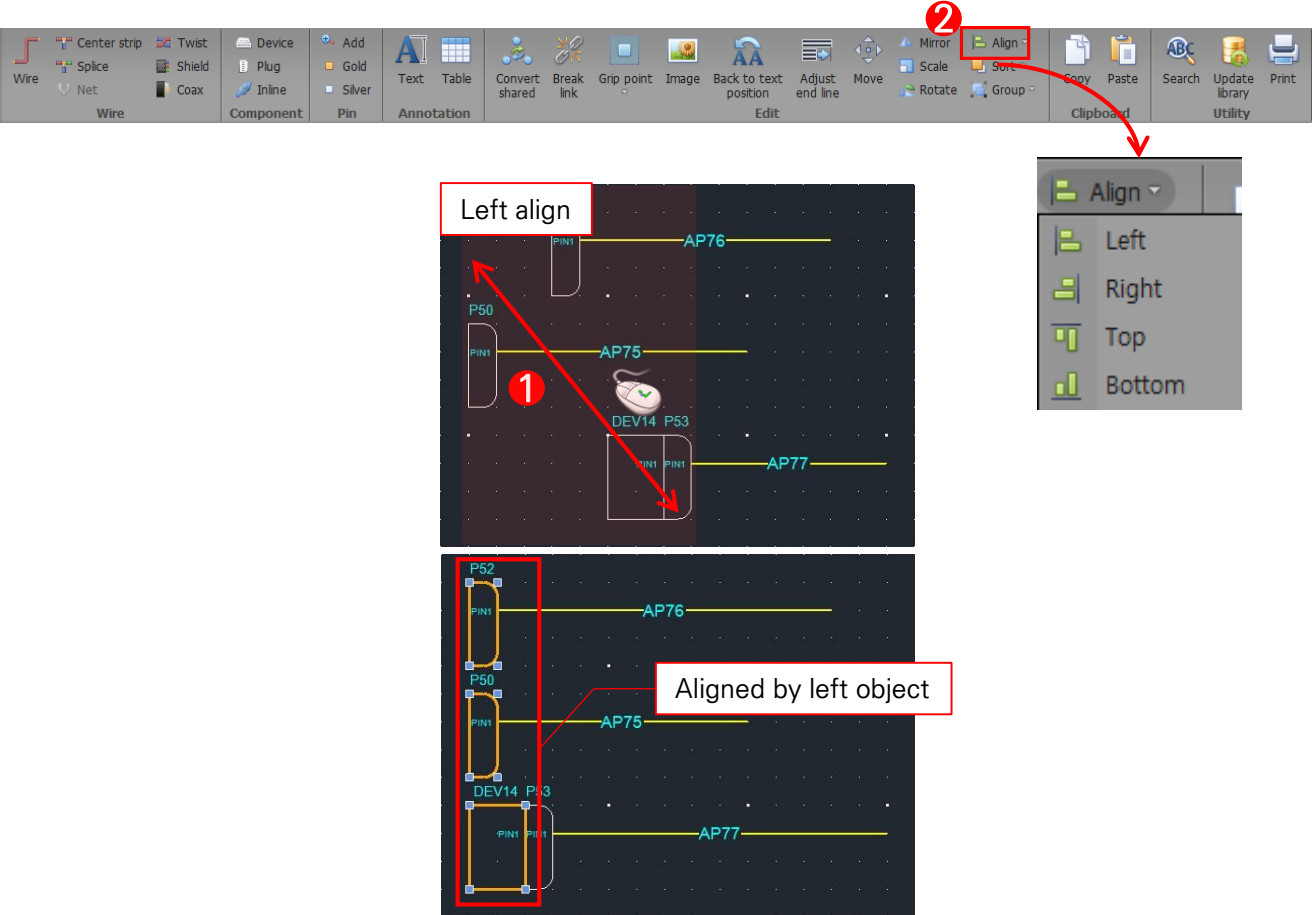
3. Mirror, scale, rotation, align, arrangement

Screen	Description
 <p>The screenshot displays the software's ribbon interface with the 'Scale' button highlighted in red. Below the ribbon, two circuit diagrams are shown. The left diagram, labeled '1.33%', shows a circuit with a red '1' indicating the selected object. The right diagram, labeled '0.587%', shows the same circuit with a red '2' indicating the Scale button in the ribbon.</p>	<h3>Scale</h3> <ol style="list-style-type: none"> ① Select circuit object ② Click Scale button on the Home tab ③ Scale to mouse position point or enter number <ul style="list-style-type: none"> ▪ Complete: 'Enter' key ▪ Cancel: 'Esc' Key

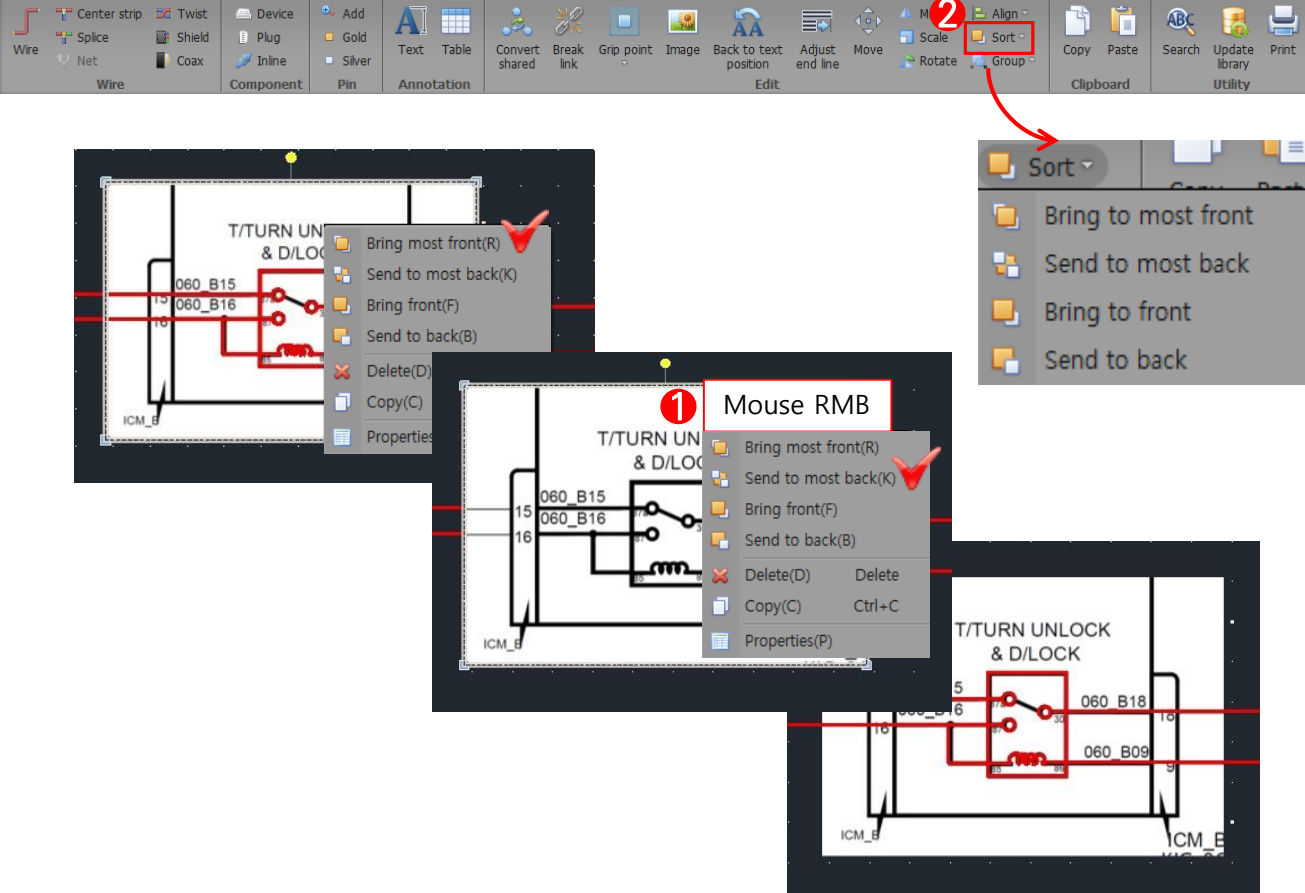
3. Mirror, scale, rotation, align, arrangement

Screen	Description
 <p>The screenshot displays the software's ribbon interface with the 'Edit' tab selected. The 'Rotate' button is highlighted with a red box and a red circle containing the number '2'. Below the ribbon, four panels illustrate the rotation process:</p> <ul style="list-style-type: none"> 90°: The circuit diagram is rotated 90 degrees counter-clockwise. 180°: The circuit diagram is rotated 180 degrees counter-clockwise. 270°: The circuit diagram is rotated 270 degrees counter-clockwise. <p>A red square on the diagram indicates the reference point, with a callout box stating "Red point: Reference point". A red circle with the number '1' is placed over the 'Rotate' button, and a red circle with the number '3' is placed over the reference point.</p>	<h4>▣ Rotation</h4> <ol style="list-style-type: none"> ① Select circuit object ② Click Rotate button on the Home tab ③ Select red point, after rotating with 'R' key, press 'Enter' key. <ul style="list-style-type: none"> ▪ Rotation: Pressing 'R' key rotates CCW direction 90 degrees ▪ Complete: 'Enter' key ▪ Cancel: 'Esc' Key

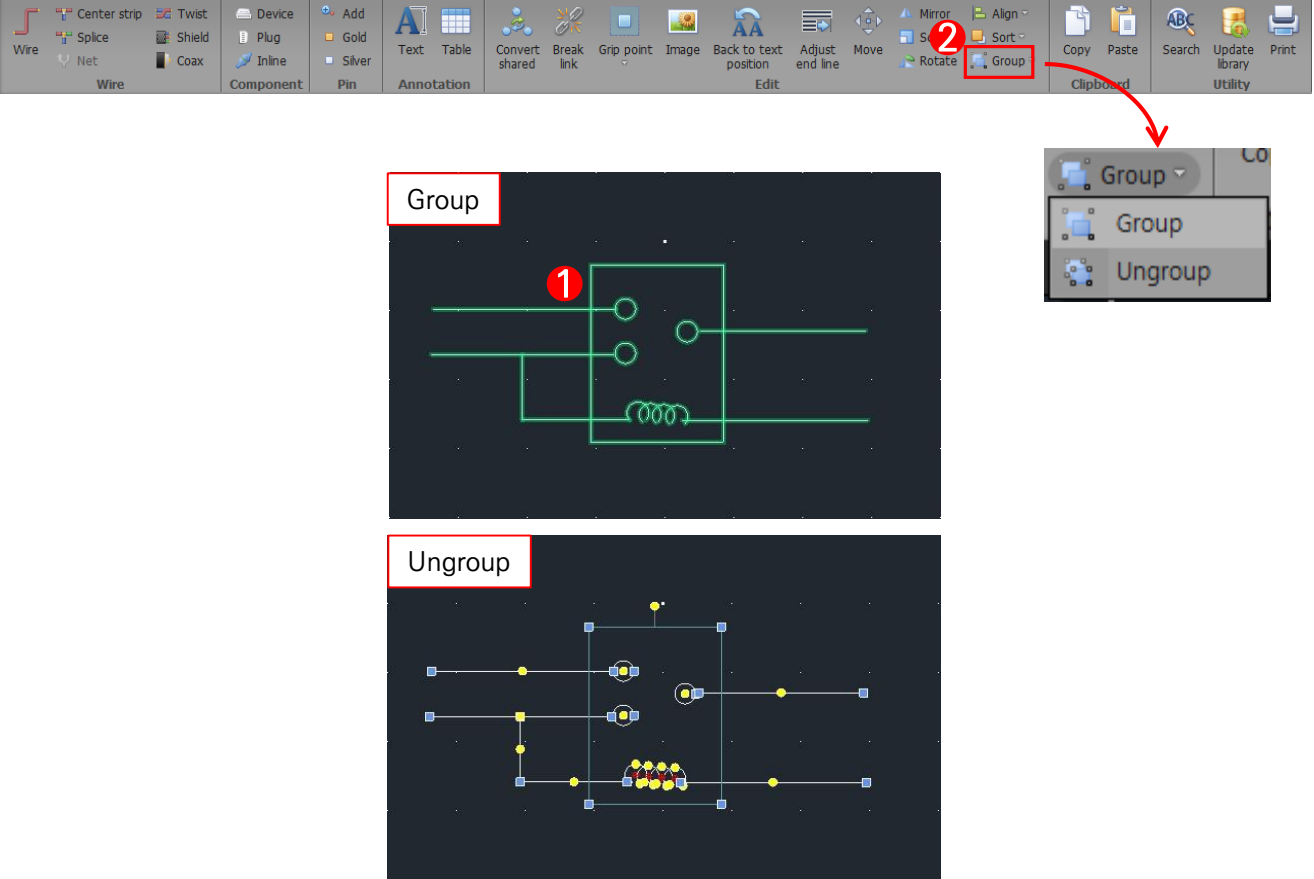
3. Mirror, scale, rotation, align, arrangement

Screen	Description
 <p>The screenshot shows the software's Home tab ribbon with the 'Align' button highlighted. Below the ribbon, two circuit diagrams demonstrate the 'Align' function. The top diagram shows a circuit with components P50, P52, DEV14, and P53, and nets AP75, AP76, and AP77. A red arrow points from the 'Align' button to the 'Left align' label. The bottom diagram shows the same circuit with a red box around the components and a label 'Aligned by left object' pointing to the alignment.</p>	<h2 data-bbox="2058 339 2168 372">Align</h2> <ol data-bbox="1760 454 2211 668" style="list-style-type: none"> <li data-bbox="1760 454 2028 482">① Select circuit object <li data-bbox="1760 515 2211 668">② Click Align button on the Home tab <ul data-bbox="1791 551 1895 668" style="list-style-type: none"> <li data-bbox="1791 551 1862 579">▪ Left <li data-bbox="1791 579 1875 608">▪ Right <li data-bbox="1791 608 1854 636">▪ Top <li data-bbox="1791 636 1895 665">▪ Bottom

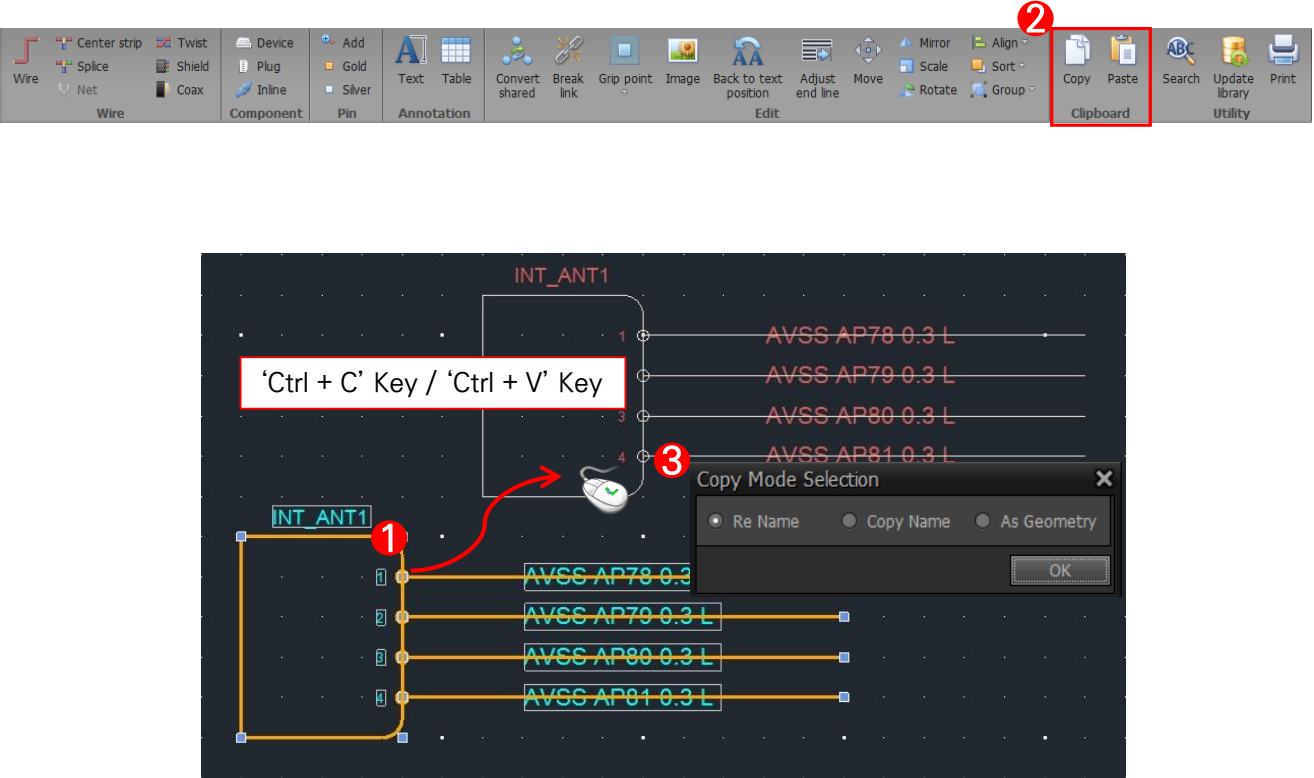
3. Mirror, scale, rotation, align, arrangement

Screen	Description
 <p>The screenshot displays the software's Home tab toolbar with the 'Sort' button highlighted in a red box and labeled with a red '2'. Below the toolbar, three sequential diagrams illustrate the 'Arrangement' process. The first diagram shows a circuit with components 060_B15 and 060_B16. The second diagram shows the 'Sort' context menu open, with options like 'Bring to most front', 'Send to most back', 'Bring front(F)', and 'Send to back(B)'. A red circle with '1' and 'Mouse RMB' is placed over the diagram. The third diagram shows the components rearranged in the circuit.</p>	<p>Arrangement</p> <ol style="list-style-type: none"> ① Select circuit object ② Click Sort button on the Home tab, click mouse RMB. <ul style="list-style-type: none"> ▪ Bring to most front ▪ Send to most back ▪ Bring to front ▪ Send to back <ul style="list-style-type: none"> ▪ Drawing with reference to symbols : Copy the symbol image to the diagram, You can draw easily using images.

4. Group grouping, release

Screen	Description
 <p>The screenshot displays the software's ribbon interface. The 'Home' tab is active, and the 'Group' button is highlighted with a red circle and the number '2'. A red arrow points from this button to a dropdown menu showing 'Group' and 'Ungroup' options. Below the ribbon, two circuit diagrams illustrate the process. The top diagram, labeled 'Group', shows a circuit with a red box around a component and a red circle with the number '1' next to it. The bottom diagram, labeled 'Ungroup', shows the same circuit with individual components highlighted by blue and yellow selection handles.</p>	<h3 data-bbox="1923 335 2305 378">■ Group grouping, release</h3> <ol data-bbox="1758 449 2229 606" style="list-style-type: none"> <li data-bbox="1758 449 2229 485">① Select circuit object <li data-bbox="1758 506 2229 606">② Click Group button on the Home tab <ul data-bbox="1783 542 1923 606" style="list-style-type: none"> <li data-bbox="1783 542 1923 578">▪ Group <li data-bbox="1783 578 1923 606">▪ Ungroup

5. Copy and paste objects

Screen	Description
 <p>The screenshot illustrates the copy and paste workflow. In the top toolbar, the 'Copy' and 'Paste' buttons are highlighted with a red box and a red '2'. In the circuit diagram below, the component 'INT_ANT1' is selected with a red box and a red '1'. A 'Copy Mode Selection' dialog box is open, showing options: 'Re Name' (selected), 'Copy Name', and 'As Geometry'. A red arrow points from the selected component to the dialog box, and a red '3' is next to the mouse cursor over the dialog box.</p>	<h3 data-bbox="1923 339 2293 378">Copy and paste objects</h3> <ol data-bbox="1758 449 2293 606" style="list-style-type: none"> <li data-bbox="1758 449 2025 478">① Select circuit object <li data-bbox="1758 506 2293 542">② Click Copy, Paste button on the Home tab <li data-bbox="1758 571 2229 606">③ Move object to mouse position point <ul data-bbox="1783 635 2458 863" style="list-style-type: none"> <li data-bbox="1783 635 2458 671">▪ Re name: Create a unique circuit name automatically <li data-bbox="1783 699 2458 799">▪ Copy name: Copied with the same circuit name but with different ID values – Not recommended: Design rule violation. <li data-bbox="1783 828 2229 863">▪ As geometry: No model information <p data-bbox="1758 892 2114 956">▪ Copy / paste function 'Ctrl + C' Key / 'Ctrl + V' Key</p>

6. Copy and paste clipboard

Screen

The screenshots illustrate the following steps:

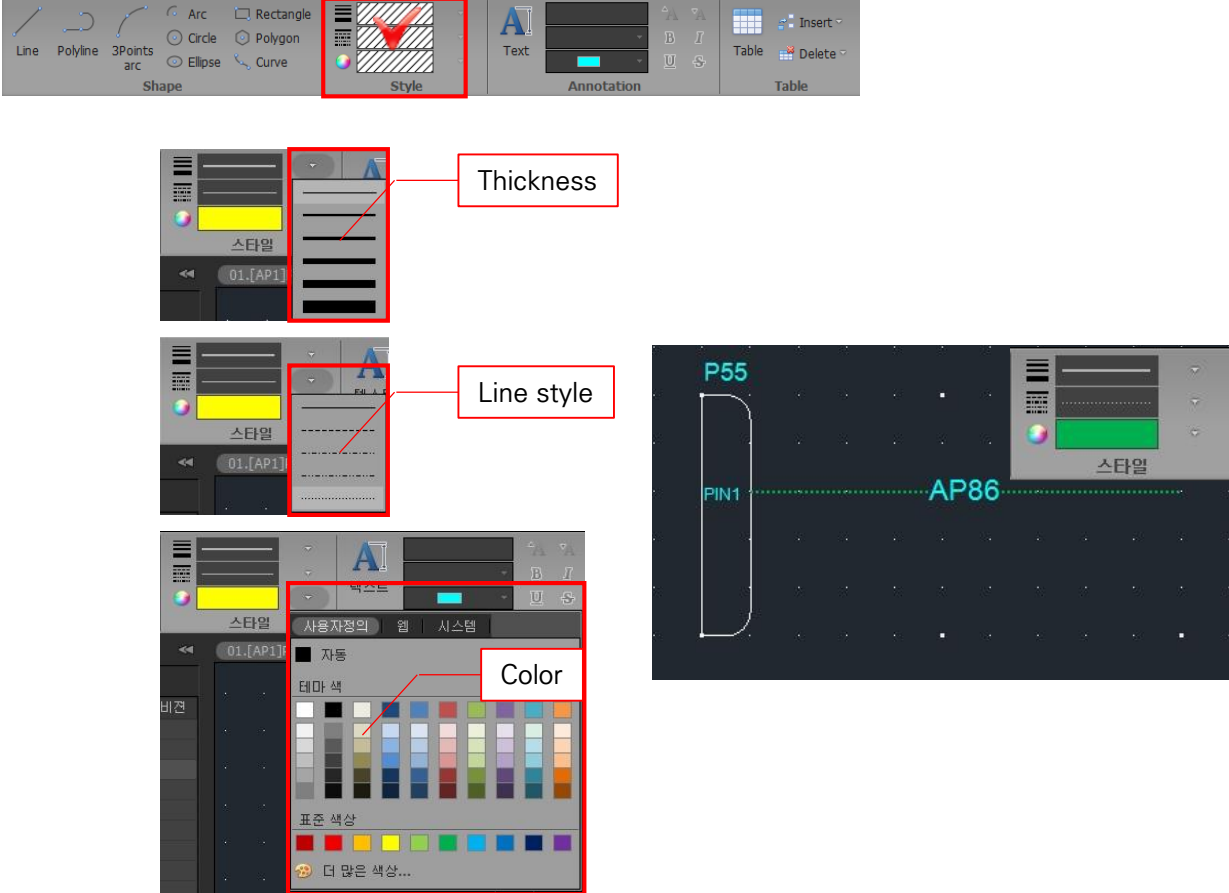
- Text:** A text editor window titled '없음 - 메모장' shows a list of instructions: '1. 이미지 복사, 붙여넣기', '2. 텍스트 클립보드 복사, 붙여넣기', and '3. 엑셀 시트 복사, 붙여넣기'. A red box highlights the word 'Text'.
- Image:** A '저록 없음 - 그림판' window shows a circuit diagram. A red box highlights the word 'Image'. A red box with the text 'Ctrl + C' Key / 'Ctrl + V' Key' has an arrow pointing to a mouse cursor over the diagram.
- Table:** A Microsoft Excel window shows a table with columns: 'MARK', 'WEEK', 'SQUA', 'COL', 'WAY', 'FROM_CONNECTOR', 'PTR_191', 'PI', 'YO_CONNECTOR'. A red box highlights the word 'Table'.

Description

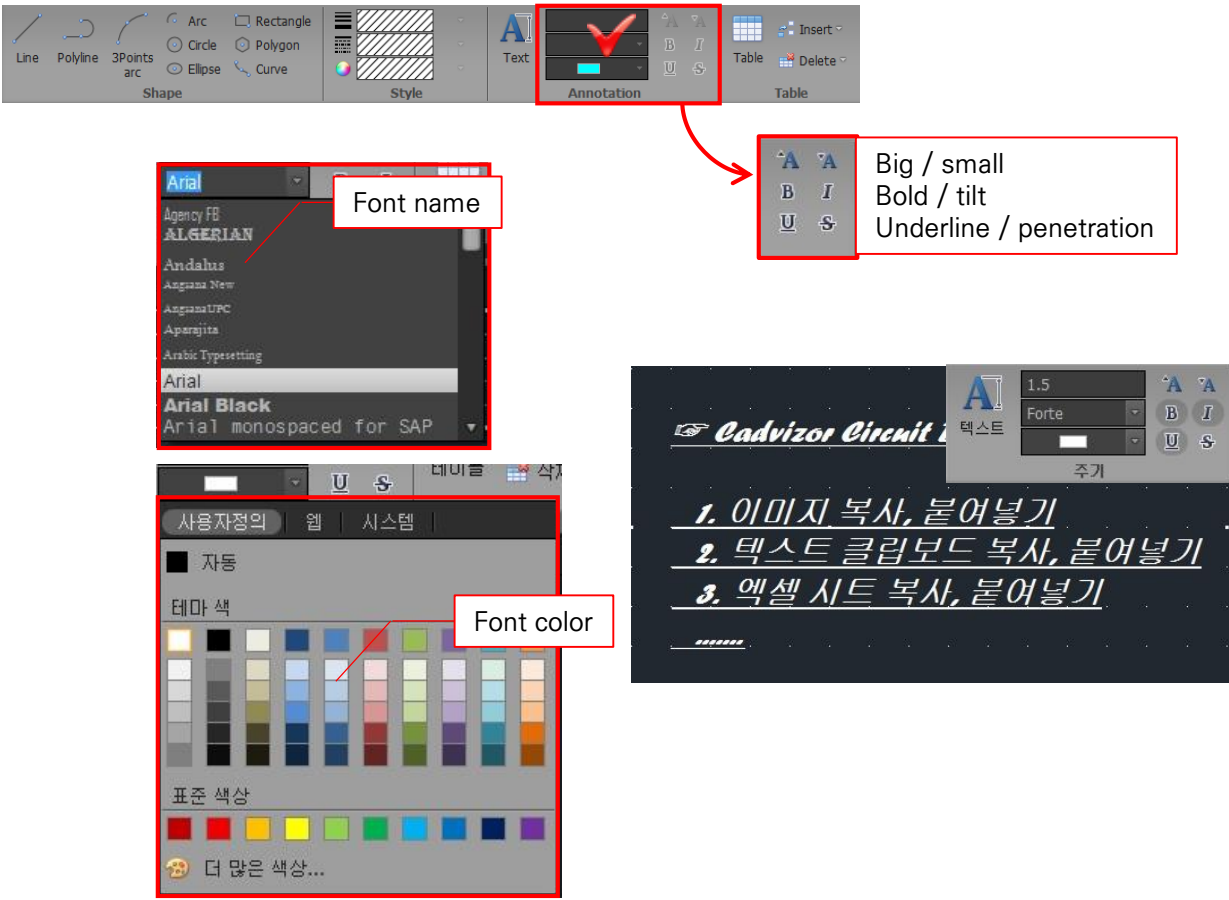
 Copy and paste clipboard

- After selecting clipboard text, Copy and paste functions
- After selecting clipboard image, Copy and paste functions
- After selecting clipboard table, Copy and paste functions
- **Clipboard copy / paste function**
'Ctrl + C' Key / 'Ctrl + V' Key

7. Edit object style

Screen	Description
 <p>The 'Screen' section contains three screenshots illustrating the 'Edit object style' process:</p> <ul style="list-style-type: none"> The top screenshot shows the software ribbon with the 'Style' tool highlighted in a red box. The middle-left screenshot shows the '스타일' (Style) dialog box with the 'Thickness' property highlighted in a red box and labeled 'Thickness'. The bottom-left screenshot shows the '스타일' (Style) dialog box with the 'Color' property highlighted in a red box and labeled 'Color'. The middle-right screenshot shows a technical drawing with a vertical line labeled 'PIN1' and a horizontal dashed line labeled 'AP86', with the '스타일' (Style) dialog box open over it. 	<p data-bbox="1974 335 2242 378">■ Edit object style</p> <ul data-bbox="1758 449 1898 606" style="list-style-type: none"> ▪ Thickness ▪ Line style ▪ Color

8. Edit text style

Screen	Description
 <p>The screenshot illustrates the process of editing text style. It shows the 'Annotation' toolbar with a red checkmark icon. A callout box lists the icons for font size (Big / small), bold / tilt, and underline / penetration. Below, the font selection menu is shown with 'Aral' selected, and a callout box labels it as 'Font name'. The color palette is also shown with a callout box labeling it as 'Font color'. Finally, a text object is shown with its style properties: font size 1.5, font name 'Forte', and underline / penetration options.</p>	<p>■ Edit text style</p> <ul style="list-style-type: none"> ▪ Font size ▪ Font name ▪ Font color ▪ Font style Big / small Bold / tilt Underline / penetration

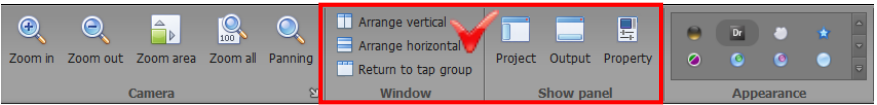
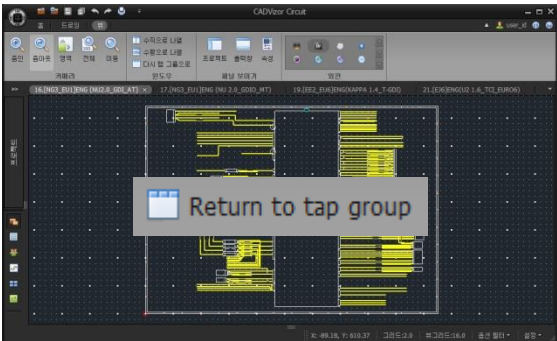
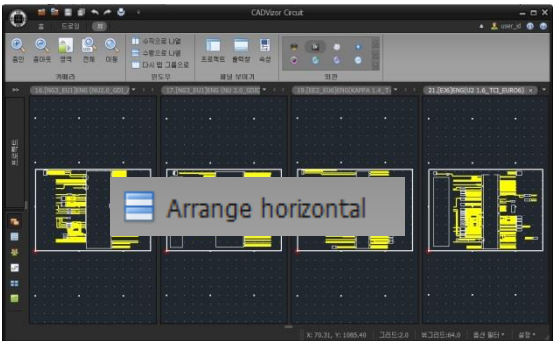
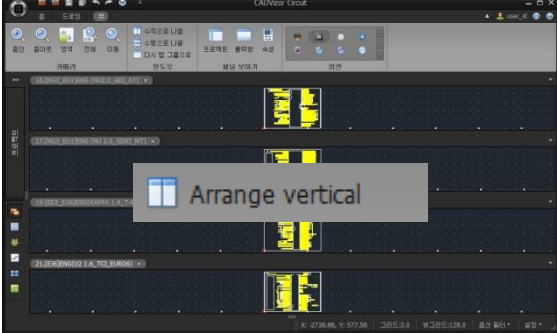
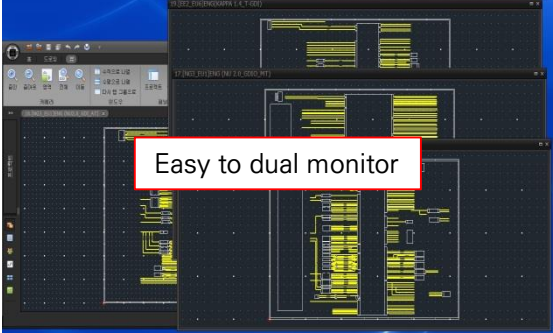
IX _ View control

1. Camera area
2. Window screen settings

1. Camera area

Screen	Description
<div data-bbox="242 317 1116 419" style="border: 1px solid red; padding: 5px;"> </div> <div data-bbox="402 482 845 831"> </div> <div data-bbox="402 845 845 1193"> </div> <div data-bbox="963 482 1406 831"> </div> <div data-bbox="963 845 1406 1193"> </div>	<div data-bbox="1997 337 2219 372" style="border: 1px solid black; padding: 2px;"> <input checked="" type="checkbox"/> Camera area </div> <ul style="list-style-type: none"> <li data-bbox="1755 451 1880 479">▪ Zoom all <li data-bbox="1755 515 1880 544">▪ Zoom in <li data-bbox="1755 579 1895 608">▪ Zoom out <li data-bbox="1755 644 1905 672">▪ Zoom area <li data-bbox="1755 708 1880 736">▪ Panning

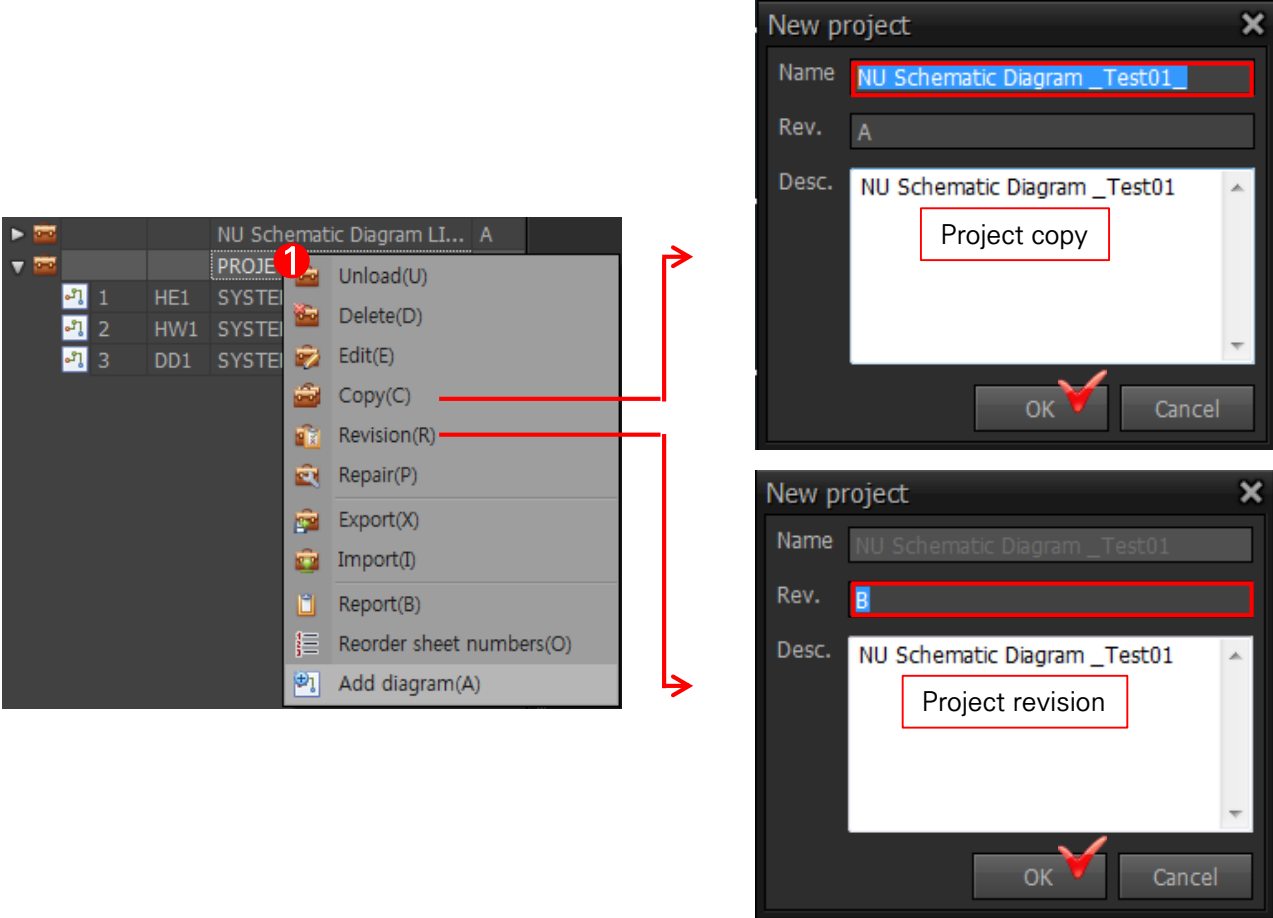
2. Window screen settings

Screen	Description
    	<p data-bbox="1921 339 2298 372"> <input checked="" type="checkbox"/> Window screen settings </p> <ul data-bbox="1760 454 2415 729" style="list-style-type: none"> ▪ Return to tab group ▪ Arrange vertical ▪ Arrange horizontal ▪ Easy to use dual monitor : When working with design drawings at the same time or when using them as reference drawings

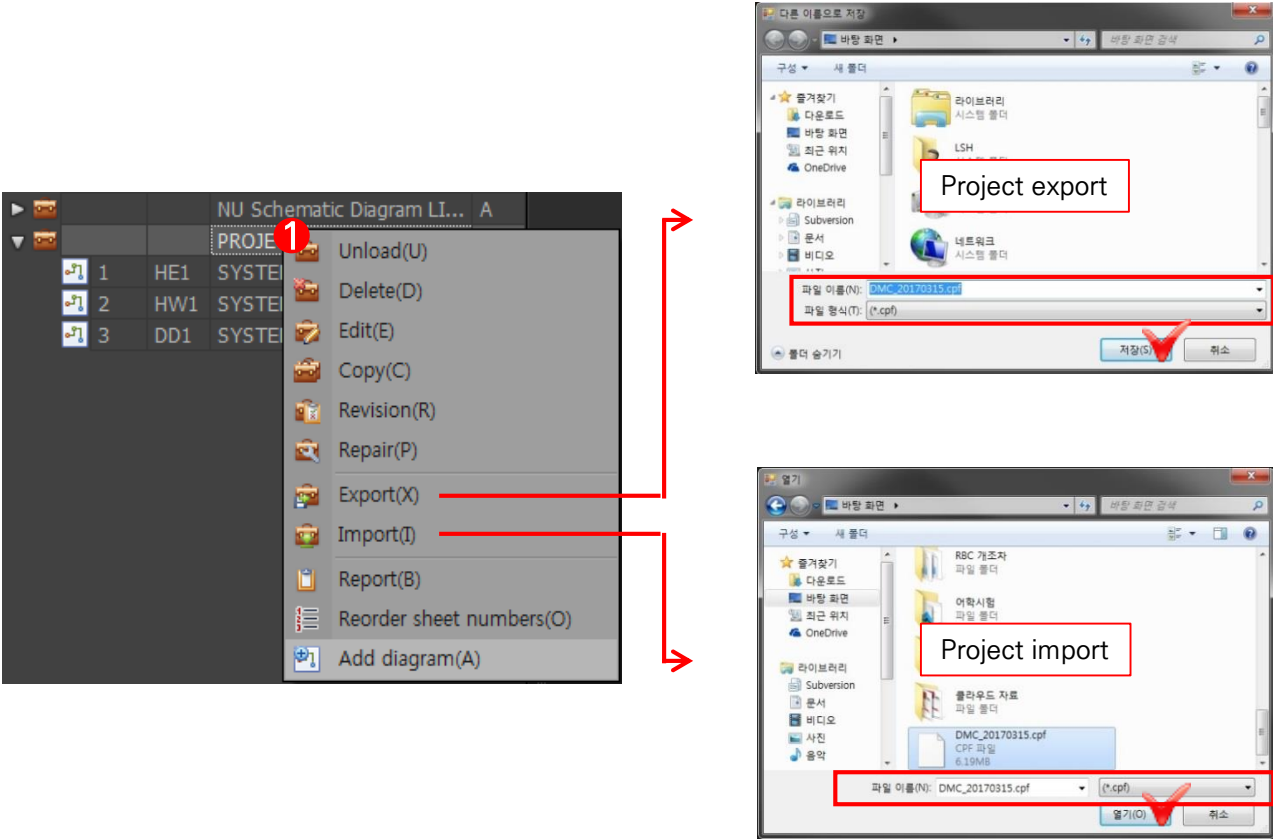
X _ Project management

1. Copy project
2. Export and import project files(.cpf)
3. Save project PDF file, print out

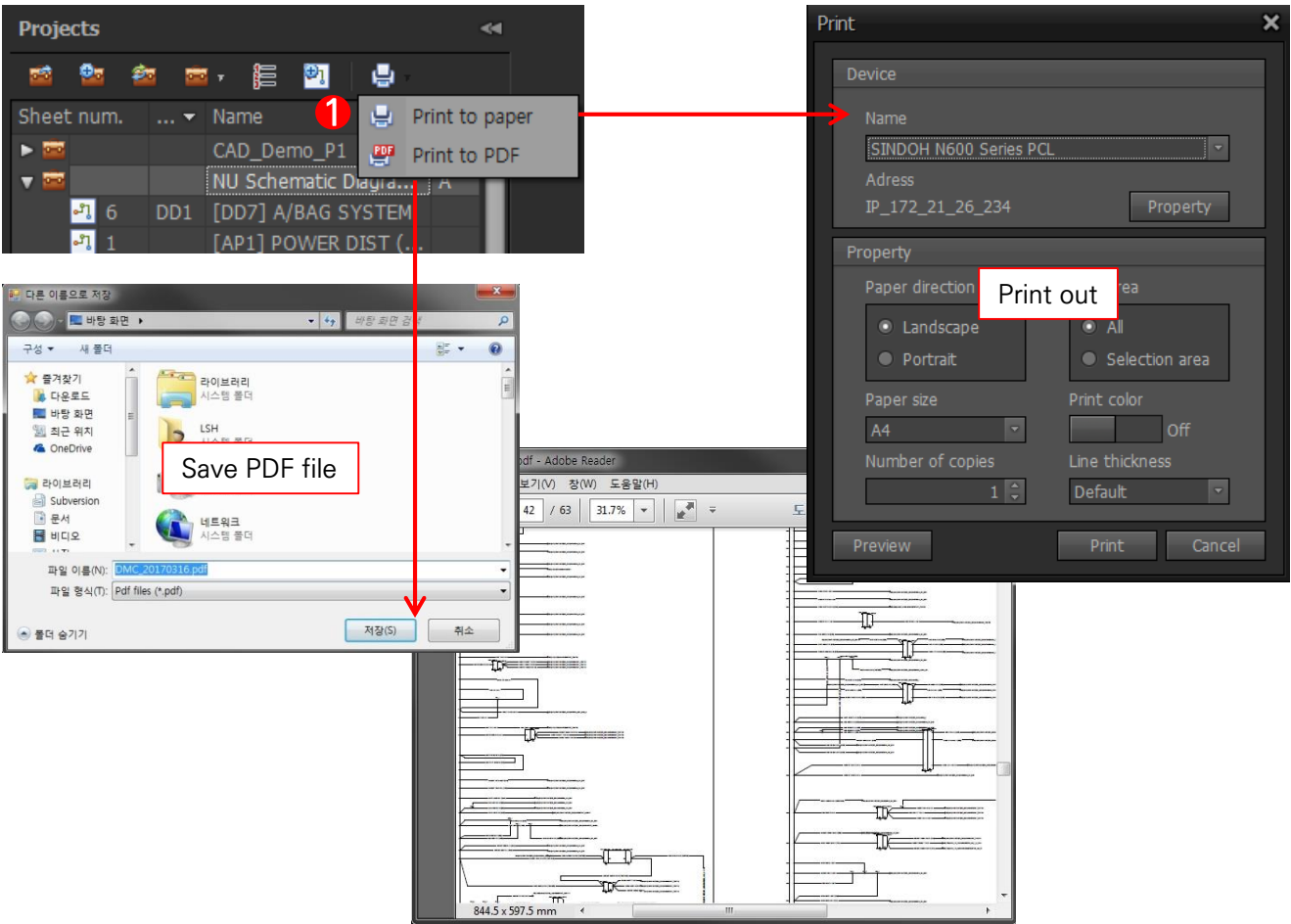
1. Copy project

Screen	Description
 <p>The screenshot illustrates the process of copying a project. On the left, a project list is shown with a context menu open over the 'PROJE' entry. The 'Copy(C)' option is highlighted. Two red arrows point from the 'Copy(C)' and 'Revision(R)' options to the 'New project' dialog boxes on the right. The top dialog, titled 'New project', shows the 'Name' field as 'NU Schematic Diagram _Test01', 'Rev.' as 'A', and 'Desc.' as 'NU Schematic Diagram _Test01'. A red box highlights the 'Project copy' text in the description field. The bottom dialog, also titled 'New project', shows the 'Name' field as 'NU Schematic Diagram _Test01', 'Rev.' as 'B', and 'Desc.' as 'NU Schematic Diagram _Test01'. A red box highlights the 'Project revision' text in the description field.</p>	<p><input checked="" type="checkbox"/> Copy project</p> <p>① After selecting a project, click mouse RMB, click Copy, Revision button.</p> <ul style="list-style-type: none"> ▪ Copy: The name can not be duplicated, and the revision is the same. ▪ Revision: The name is the same, and the revision can not be duplicated.

2. Export and import project files(.cpf)

Screen	Description
	<p data-bbox="1837 337 2379 372">■ Export and import project files(.cpf)</p> <p data-bbox="1755 451 2461 511">① After selecting a project, click mouse RMB, click Export, Import button.</p> <ul data-bbox="1786 546 2339 639" style="list-style-type: none"> ▪ Export: Save the project in a file(.cpf) format ▪ Import: Open a project in a file(.cpf) format

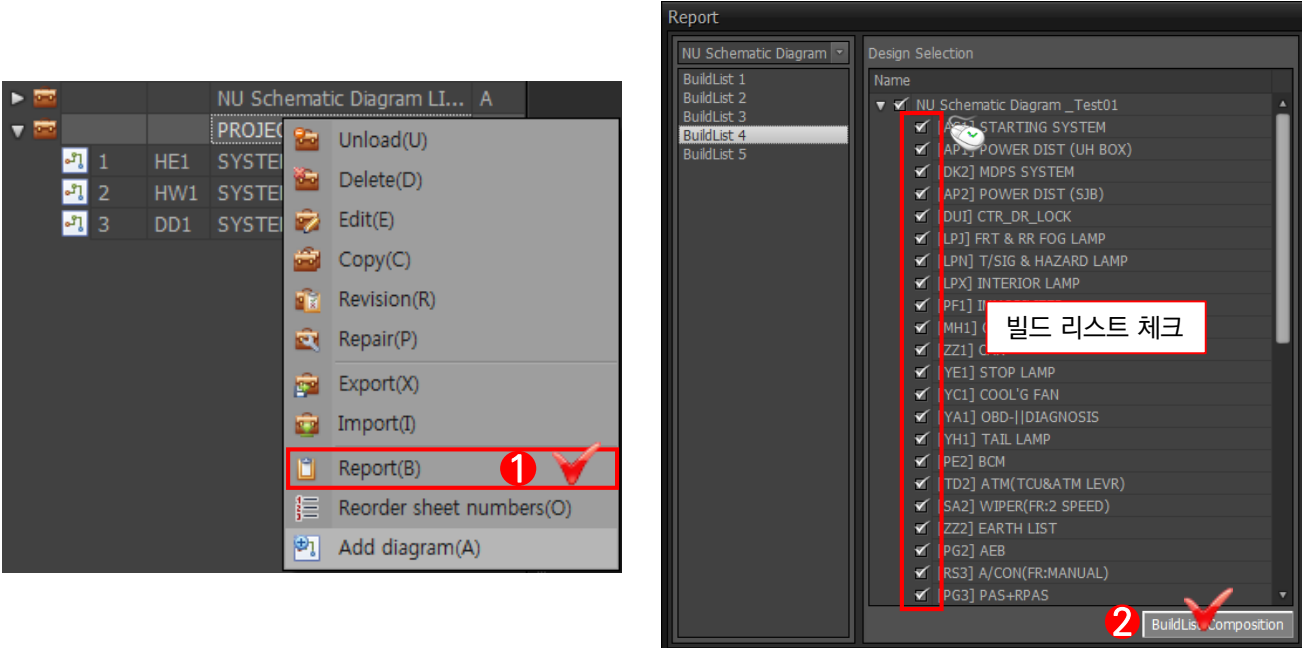
3. Save project PDF file, print out

Screen	Description
 <p>The screenshot illustrates the workflow for saving and printing a project. It shows the 'Print' menu with options for 'Print to paper' and 'Print to PDF'. A red arrow indicates the selection of 'Print to PDF', which opens the 'Print' dialog box. In this dialog, the 'Print out' button is highlighted with a red box. A second red arrow points from this button to a 'Save PDF file' dialog box, where the file name and format are specified. The background displays a technical drawing of a power distribution system.</p>	<p>Print</p> <ul style="list-style-type: none"> Print to paper: Print the project Print to PDF: Save and print your project in PDF file format

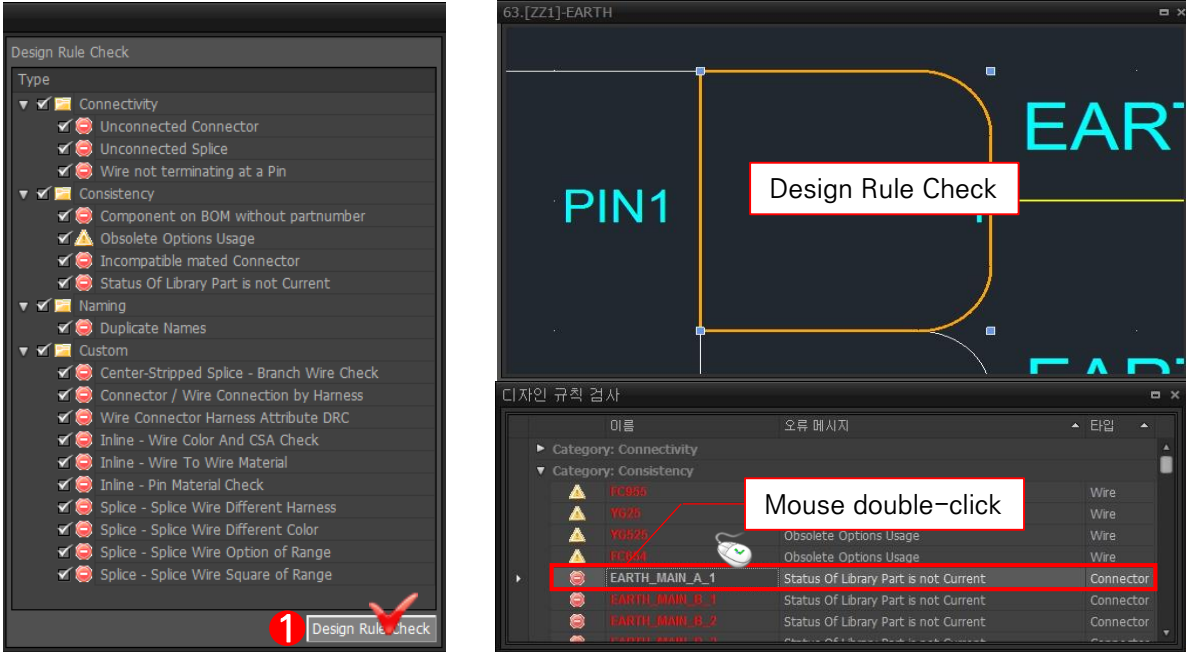
X I _ Report

1. Build list configuration
2. Design Rule Check(DRC)
3. Report

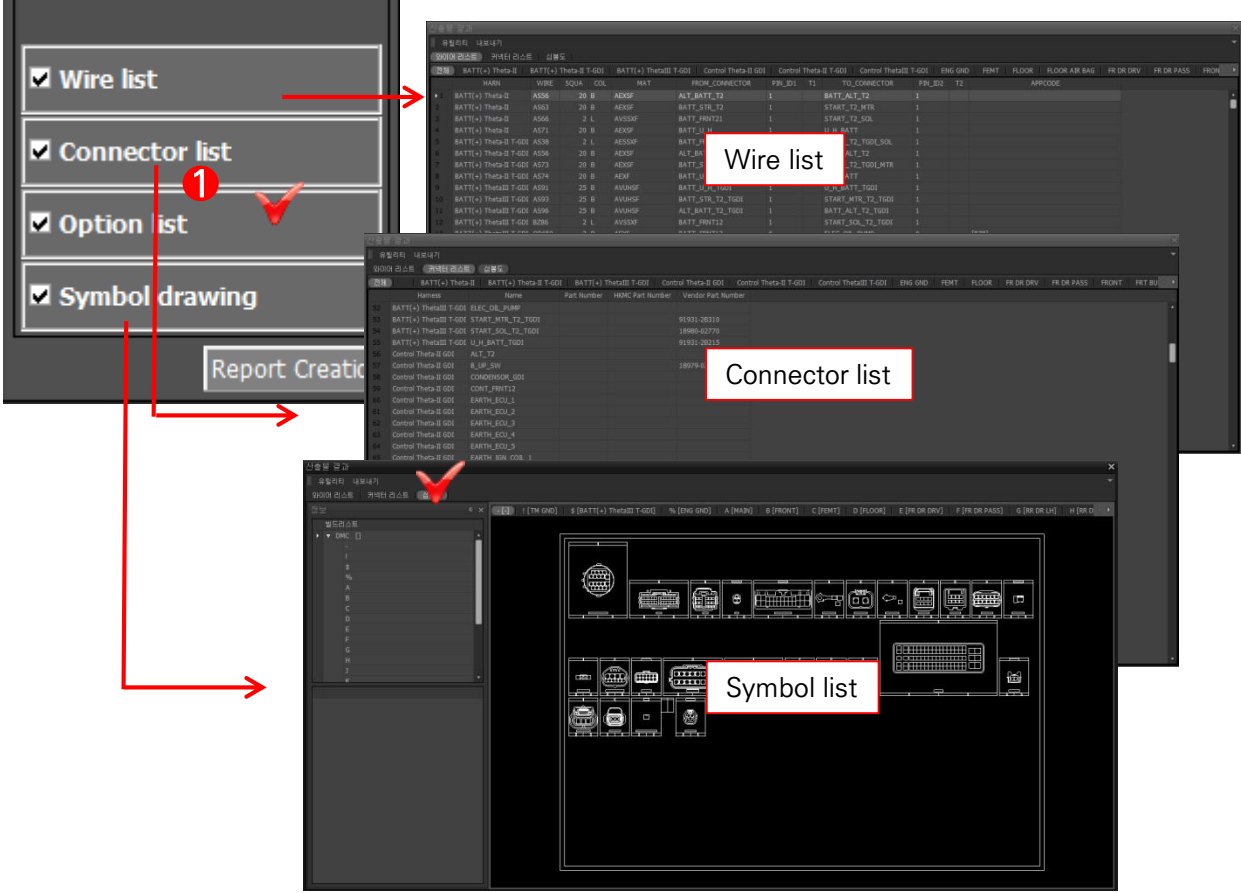
1. Build list configuration

Screen	Description
 <p>The left screenshot shows a context menu for a project with the following items: Unload(U), Delete(D), Edit(E), Copy(C), Revision(R), Repair(P), Export(X), Import(I), Report(B), Reorder sheet numbers(O), and Add diagram(A). The 'Report(B)' option is highlighted with a red box, and a red '1' and checkmark are placed next to it.</p> <p>The right screenshot shows a 'Report' dialog box with a 'Design Selection' list. The list contains the following items, all of which are checked: NU Schematic Diagram _Test01, AEB] STARTING SYSTEM, AP1] POWER DIST (UH BOX), DK2] MDPS SYSTEM, AP2] POWER DIST (SJB), DU1] CTR_DR_LOCK, LP1] FRT & RR FOG LAMP, LPN] T/SIG & HAZARD LAMP, LPX] INTERIOR LAMP, PF1] I, MH1] (빌드 리스트 체크), ZZ1] C, YE1] STOP LAMP, YC1] COOL'G FAN, YA1] OBD-]DIAGNOSIS, YH1] TAIL LAMP, PE2] BCM, TD2] ATM(TCU&ATM LEVR), SA2] WIPER(FR:2 SPEED), ZZ2] EARTH LIST, PG2] AEB, RS3] A/CON(FR:MANUAL), and PG3] PAS+RPAS. A red box highlights the list, and a red '2' and checkmark are at the bottom right of the dialog.</p>	<p>▣ Build list configuration</p> <ol style="list-style-type: none"> ① After selecting a project, click mouse RMB, click Report button. ② Check circuit diagram to output <ul style="list-style-type: none"> ▪ Build list for outputting specific circuit diagram

2. Design Rule Check(DRC)

Screen	Description
	<p data-bbox="1913 339 2303 372">■ Design Rule Check(DRC)</p> <p data-bbox="1760 454 2448 544">① Design Rule Check(DRC): Alert and error messages are displayed through the design rule check, and when the mouse is clicked, the drawing is tracked.</p> <ul data-bbox="1760 579 2397 636" style="list-style-type: none"> ▪ The DRC check is mandatory and is a verification work to improve the quality of drawings.

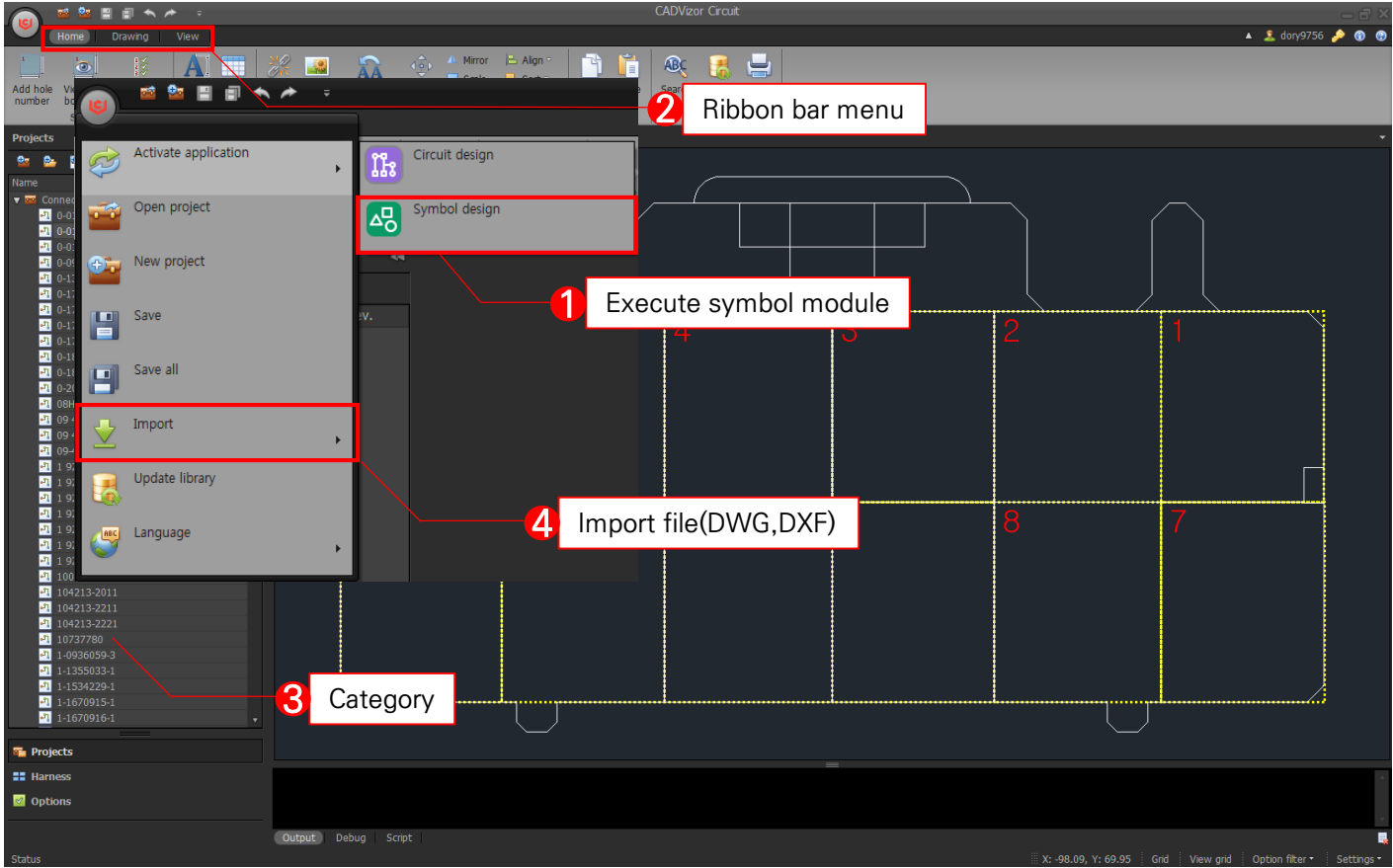
3. Report

Screen	Description
 <p>The screenshot shows a 'Report Creation' dialog box with four checked options: 'Wire list', 'Connector list', 'Option list', and 'Symbol drawing'. A red '1' is next to 'Connector list'. Below the dialog, three overlapping windows display the generated reports: 'Wire list' (a table of wire connections), 'Connector list' (a table of component part numbers), and 'Symbol list' (a grid of electrical symbols).</p>	<p>Report</p> <p>① Report Creation: After checking only necessary output, it can be generated. Wire list, Connector list, Option list, Symbol list, Etc...</p>

X II _ Symbol module

1. Screen layout
2. Connector symbol

1. Screen layout

Screen	Description
 <p>The screenshot displays the CADVIZOR Circuit software interface. The ribbon bar menu at the top is divided into three sections: Home, Drawing, and View. The Home section contains icons for 'Activate application', 'Open project', 'New project', 'Save', 'Save all', 'Import', 'Update library', and 'Language'. The 'Import' option is highlighted with a red box and labeled '4 Import file(DWG,DXF)'. The left sidebar shows a 'Projects' list with various project names and a 'Category' list with various part numbers, highlighted with a red box and labeled '3 Category'. The main workspace shows a circuit diagram with various components and a grid. The ribbon bar menu is highlighted with a red box and labeled '2 Ribbon bar menu'. The 'Execute symbol module' option is highlighted with a red box and labeled '1 Execute symbol module'.</p>	<h2>■ Screen layout</h2> <ol style="list-style-type: none"> ① App menu – Activate application – Symbol design Execute symbol module through application change ② Ribbon bar menu <ul style="list-style-type: none"> ▪ Home: Symbol creation and placement of the most frequently used functions ▪ Drawing: Place geometry and style settings ▪ View: Place camera and UI controls ③ Category <ul style="list-style-type: none"> ▪ Connector: After searching the library module for the entered part number, create a connector symbol for use in the drawing. Pin position must be entered correctly. ▪ Template: Generate templates related to drawing information ▪ Etc: Create a symbol to use as a reference in the drawing. EX) Fuse, Relay, Diode... ④ Import(DWG,DXF) This function allows you to load CAD files of other products.

2. Connector symbol

Screen	Description
<p>The screenshot illustrates the workflow for creating a connector symbol. It shows the software's ribbon with the 'Add hole number' button highlighted (3). Below, the 'Projects' panel shows a list of projects with 'Add diagram(A)' selected (1). The 'New diagram' dialog box shows the 'PartNumber' field (2). The 'Input hole number' dialog box shows the 'Hole number' field with '12' entered (3). A diagram with numbered pins 1-11 is also shown, with a red box around pin 11 and an arrow pointing to the 'Input hole number' dialog.</p>	<p>Connector symbol</p> <ol style="list-style-type: none"> After selecting a project, click mouse RMB, click Add diagram button. Search library information <ul style="list-style-type: none"> PartNumber: The unique number, you must create in the library module Add hole number Generation of unique pin numbers through the number of pins input from the library module. Pin position must be entered correctly. <ul style="list-style-type: none"> How to draw a connector symbol <ul style="list-style-type: none"> Drawing connector symbols through the Drawing menu App menu – Import(DWG, DXF)

X III _ Library module

1. Screen layout
2. Connector library
3. Wire library

1. Screen layout

Screen	Description
<p>The screenshot shows the CADVIZOR Library software interface. The top toolbar contains several icons, with a red box labeled '1' highlighting the Quick access toolbar. Below the toolbar, there are buttons for 'New', 'Delete', 'Connector', 'Wire', 'Code management', 'Verticality', 'Horizontal', 'Original return', 'Xml Migration', 'Bookmark', and 'Refresh'. A red box labeled '2' highlights the 'New' and 'Delete' buttons. A red box labeled '3' highlights the 'Code management' button. A red box labeled '4' highlights the 'Bookmark' button. A red box labeled '5' highlights a row in a table of connector parts, with an arrow pointing to it and the text 'Mouse double-click'. The 'Code Manager' window is open on the left, showing a list of materials with columns for Color Code, Color, and Description. The 'Connector Main' window is open on the right, showing a table of connector parts.</p>	<p>■ Screen layout</p> <ol style="list-style-type: none"> ① Quick access tool bar By adding frequently used functions to the Quick access toolbar, widely use diagram window ② Add and delete materials button ③ Code management: List to be managed publicly Ex) Color code, material... ④ Bookmark ⑤ Find materials in favorite items

2. Connector library

Screen	Description
<p>The screenshot shows the CADVIZOR Library Connector Main interface. The main area is a table of connector parts. A red box labeled 'Connector Library' highlights the table. A red box highlights the 'Connector' button in the top toolbar. A red box highlights the 'Add', 'Delete', and 'Download' buttons in the top right. A red box highlights the 'Image' and 'Symbol' tabs in the detail information panel. A red box highlights the 'Attached Materials' section. A red box highlights the 'Attachment Files' section. A red box highlights the 'Revision History' section. Red numbers 1 through 8 are placed around the interface to indicate key features.</p>	<p>Connector library</p> <ol style="list-style-type: none"> ① Search all connector libraries ② Search for detailed items by column ③ Image and symbol management ④ Connector material management Ex: Terminal, Seal ... ⑤ Attached file management ⑥ History management ⑦ Add, delete, download attachments ⑧ Registration of favorites and symbols

3. Wire library

Screen	Description
<p>The screenshot displays the CADVIZOR Wire Library interface. The main window is titled 'Wire Main' and contains a table with the following columns: Favorite, Cross Section Area, Outside Diameter, Material, Base Number, Series, Supplier Number, Manufacturer Number, OEM Number, Name, Alias, Description, Unit, Width, Height, Depth, Length, Weight, and Status. The table lists various wire specifications. A 'Detail Information' panel on the right shows fields for 'Color Code' (with a value of 'B') and 'Attachment Files'. A 'Revision History' table at the bottom right shows a single entry for 'Create' on '2017-06-22 02:43:53'. Red annotations include: 1. A search bar at the top left; 2. Column headers in the table; 3. The 'Detail Information' panel; 4. 'Color Code' management controls; 5. 'Attachment Files' management controls; 6. 'Revision History' management controls; 7. '+', '-', and download icons at the top right; 8. The 'Favorite' column in the table.</p>	<p>Wire library</p> <ol style="list-style-type: none"> ① Search all wire libraries ② Search for detailed items by column ③ Image management ④ Wire color management ⑤ Attached file management ⑥ History management ⑦ Add, delete, download attachments ⑧ Registration of favorites



Thank you
www.cadvizor.com