

# Design Master Electrical RT Tutorial

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# Design Master Electrical RT Tutorial

You are reading the tutorial for Design Master Electrical RT 1.4.

These tutorials teach you the basics of using the software. The [Where to Learn More](#) section at the end of the tutorial points you to the other resources we have available.

The tutorials are sequential and build on each other. It is simplest to follow them from start to finish.

## Tutorial Resources

Download the [tutorial files](#) from our website.

The files contained in this ZIP file are used in the tutorial. The ZIP file also contains a PDF copy of the tutorial. Extract the ZIP file to a folder where you can easily find it again.

You can also [watch the video tutorial for Design Master Electrical RT 1.3](#), which follows much of the material in these tutorials.

## Getting Help

Contact us if you need any help while working through the tutorials.

Our support hours are Monday through Friday, 9am to 5pm Eastern time.

Call 866-516-9497 x2, email [support@designmaster.biz](mailto:support@designmaster.biz), or [contact us via live chat](#).

# Making Changes: Don't Modify the Shared Parameters

While using Design Master Electrical RT, you should make changes to the model using the `Panel Edit`, `Circuit Edit`, and `Instance Edit` commands.

Do not make changes to the shared parameters that are used by the software, either through the **Properties** window, **Schedules**, or **Panel Schedules**. Those values are used only for output purposes. They are not used for input. Design Master Electrical RT will overwrite any changes you make to those values the next time an update happens.

The built-in circuit *Rating* value for electrical systems is also controlled by Design Master Electrical RT. Previously, to change a breaker size, you would set it in the panel schedule. That will no longer work. Instead, you need to change the value that controls the breaker size using Design Master Electrical RT commands.

The built-in circuit description value for electrical systems can also be controlled by Design Master Electrical RT. The [Modifying Branch Circuit Devices](#) section describes how to enable this feature and how to change the description using Design Master commands.

# Starting a New Project

This section teaches you how to start and configure a project for use with Design Master Electrical RT.

## Start the Project in AutoCAD

1. Start AutoCAD.
2. Open drawing **E-0.1**.
3. Run the `Start New Electrical RT Project` command. The **Start New Electrical RT Project** dialog box will open.

**Ribbon:** DM Electrical RT->Utilities-><sup>NEW</sup><sub>PROJ</sub> Start New Electrical Project

**Pulldown Menu:** DM Electrical RT->Start New Electrical Project

4. Press the **OK** button to close the dialog box.

The project database will be created and initialized. This process takes a moment.

The project database is named **dm\_elec.dm**. If you specify a *Project Name*, that is appended to the end of the file name. There can be only one project database in a folder. All of the drawing files in the folder share the same database.

## Set Up the Sample Systems Project in Revit

The following steps configure the **Sample Systems Project** for these tutorials. Your projects will not require any additional work to set up.

1. Start Revit.
2. Go to `File->Open->Sample Files` and open project `rme_basic_sample_project.rvt`.
3. Go to `File->Save As->Project` and save the project in the same folder as drawing **E-0.1**.

# Modifying Distribution Equipment

This section teaches you how to work with distribution equipment.

Design Master Electrical RT refers to all equipment that provide power to other equipment or devices as "distribution equipment." Distribution equipment includes all of the equipment that have their *Part Type* set to **Panelboard**, **Other Panel**, **Transformer**, or **Switchboard**. These tutorials cover panels, switchboards, and transformers, but the concepts work the same for other types of distribution equipment.

## Modify Distribution Equipment

1. Select transformer T-SVC and run the `Panel Edit` command. The **Panel Edit** dialog box will open with **T-SVC** active.

DM Electrical->  Panel Edit

2. Make the following changes to **T-SVC**:
  - a. Set *Transformer kVA* to **600**.
  - b. In the **Fault Calculations** section, set *Utility Fault at Device* to **Fixed** and enter **65000** for the value. The fault must be set for the topmost distribution equipment in your model; if not, an infinite fault from the utility is assumed.
3. Select **SWB** from the list and make the following changes:
  - a. Set *Mains / Bus Amps* to **400**.
  - b. Set *Main Disconnect Type* to **Breaker**.
  - c. In the **Upstream Connection** section, set *OCP Frame* to **500**.
4. Select **MDP-3** from the list and make the following changes:
  - a. Set *Mains / Bus Amps* to **200**.
  - b. Set *Main Disconnect Type* to **Breaker**.
5. Press the **Exit** button to close the dialog box.

# Modifying a Distribution Equipment Family

This section teaches you how to work with distribution equipment families.

## Modify the Family for T-SVC

1. Select transformer T-SVC and run the Revit **Edit Family** command. The family file will open.

Modify | Electrical Equipment->  Edit Family

2. Run the **Family Edit** command. The **Family Edit** dialog box will open.

DM Electrical->  Family Edit

3. Make the following changes to the family:

- a. In the **Family Settings** section, set *Device Type* to **Distribution equipment: Transformer**.

- b. In the **300 kVA** section, set *Override Family Values* to **Yes**.

- c. Set *Transformer kVA* to **300**.

- d. In the **500 kVA** section, set *Override Family Values* to **Yes**.

- e. Set *Transformer kVA* to **500**.

4. Press the **OK** button to close the dialog box.

5. Update the family in the project using the Revit **Load into Project** command or **Load into Project and Close** command.

You do not need to save the family file, but the parameters will only be used for this project if you do not save.

Create / DM Electrical->  Load into Project /  Load into Project and Close

## Modify T-SVC

1. Select T-SVC and, in its properties, set *Type* to **300 kVA**.

2. Run the **Panel Edit** command. The **Panel Edit** dialog box will open with **T-SVC** active.

DM Electrical->  Panel Edit

The *Transformer kVA* value has been updated to reflect the changes made to the family.

3. Press the **Exit** button to close the dialog box.

4. Set the *Type* to **500 kVA** and run the `Panel Edit` command again to see how the *Transformer kVA* changes.

DM Electrical->  Panel Edit

# Modifying Branch Circuit Devices

This section teaches you how to work with branch circuit devices.

Design Master Electrical RT refers to mechanical equipment, receptacles, and other devices that connect to distribution equipment as "branch circuit devices." Branch circuit devices include all of the electrical fixtures or electrical equipment with their *Part Type* set to **Equipment Switch**.

## Enable Circuit Descriptions with Design Master

With Design Master Electrical RT, circuit descriptions can be changed in a number of different places to give you greater control over the values displayed in the panel schedule. By default, this functionality is bypassed so you can continue to set circuit descriptions through typical Revit methods if you prefer.

To control your circuit descriptions using Design Master Electrical RT:

1. Run the `Options` command. The **Options** dialog box will open.

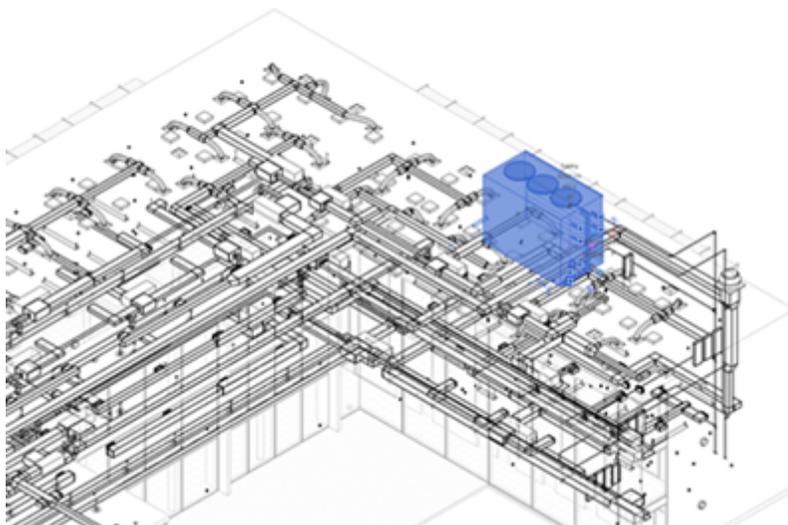
DM Electrical->  Customization->Options

2. Set *Circuit description method* to **Use Design Master circuit descriptions**.
3. Press the **OK** button to close the dialog box.

## Modify the Cooling Tower with Circuit Edit

1. Run the Revit `Default 3D View` command.

View->  **Default 3D View**



2. Select the cooling tower and run the `Circuit Edit` command. The **Circuit Edit** dialog box will open,

displaying the circuit to which the cooling tower is connected.

DM Electrical->  Circuit Edit

3. Make the following changes to the circuit:
  - a. Erase the *Description Replacement* value.
  - b. Set *Breaker Trip Size* to **Size automatically**.
  - c. Set *Breaker Frame Size* to **Same as trip**.
4. Press the **Exit** button to close the dialog box.

When using Design Master Electrical RT on existing projects, these fields are populated based upon the parameters for the device. Values for new devices inserted on the model are shown in the [Modifying a Branch Circuit Family](#) section.

## Modify the Cooling Tower with Instance Edit

1. Select the cooling tower and run the `Instance Edit` command. The **Instance Edit** dialog box will open.

DM Electrical->  Instance Edit

2. Make the following changes to the cooling tower:
  - a. Set *Override Circuit Description* to **Yes** and enter **C Tower** for the value.
  - b. Set *Breaker Size* to **100**.
  - c. Set *Wire Size* to **Size based upon breaker**.
3. Press the **OK** button to close the dialog box.
4. Select the cooling tower and run the `Circuit Edit` command to see how the values change.

DM Electrical->  Circuit Edit

## Modify the Cooling Tower with Panel Schedules

As pointed out in the [Making Changes: Don't Modify the Shared Parameters](#) section, you should not use schedules to modify devices while using Design Master Electrical RT. Changes made to schedules will be overwritten by Design Master. Follow the steps below to see an example of this:

1. Open the panel schedule for **CTP** and make the following changes to the cooling tower circuit:
  - a. Set *Circuit Description* to **Cooling Tower**.

b. Set *Trip* to **70 A**.

2. In the 3D view, select the cooling tower and run the `Circuit Edit` command. The **Circuit Edit** dialog box will open.

DM Electrical->  `Circuit Edit`

The circuit description and breaker size will still show their previous values. If you go back to the panel schedule, the circuit description and breaker size will have reverted to their previous values.

# Modifying a Branch Circuit Family

This section teaches you how to work with branch circuit device families.

Open family **Rooftop AC Units - Electric - 7.5 Tons**.

## Modify the Family for the ACU

1. Run the **Family Edit** command. The **Family Edit** dialog box will open.

DM Electrical->  Family Edit

2. Make the following changes to the family:

- In the **Family Settings** section, set *Device Type* to **Branch circuit device: Equipment connection**.
- Set *Show on One-Line Diagram* to **Yes**.
- Set *MOCP* to **40**.
- Set *Breaker Size* to **Motor-compressor, <= MOCP**.
- Set *Wire Size* to **Size based upon loads**.

3. Press the **OK** button to close the dialog box.

4. Save and close the family.

## Insert the ACU on the Model

1. Run the Revit **Mechanical Equipment** command.

Systems->  Mechanical Equipment

2. Run the Revit **Load Family** command. The **Load Family** dialog box will open.

Modify | Place Mechanical Equipment->  Load Family

3. Load family **Rooftop AC Units - Electric - 7.5 Tons**.

4. Insert the ACU on the 3D view of the model the same way you normally would. The location does not matter.

5. Circuit the ACU to panel CTP the same way you normally would.

## Modify the ACU with Instance Edit

1. Select the ACU and run the `Instance Edit` command. The **Instance Edit** dialog box will open.

DM Electrical->  Instance Edit

2. Make the following changes to the ACU:

- a. Set *Override Circuit Description* to **Yes** and enter **ACU** for the value.

- b. Set *Breaker Size* to **70**.

3. Press the **OK** button to close the dialog box.

4. Select the ACU and run the `Circuit Edit` command to see how the values set in the family are overridden by the values set in the instance.

DM Electrical->  Circuit Edit

# Modifying a Branch Circuit

This section teaches you how to work with branch circuits.

## Modify Circuits with Circuit Edit

1. Select panel PP-1A and run the `Circuit Edit` command. The **Circuit Edit** dialog box will open with **PP-1A** active.

DM Electrical->  Circuit Edit

2. Select circuit 1 using the middle grid and make the following changes:
  - a. In the **Circuit Details** section, erase the *Description Replacement* value.
  - b. Set *Breaker Trip Size* to **30**.
  - c. In the middle grid, select the *Description* and add "Existing " to the value. In the **Circuit Details** section, the *Description* and *Description Prefix* values will update to reflect the change. You can also use the *Description Prefix* field to make this change.
3. Select circuit 7 using the middle grid and make the following changes:
  - a. In the middle grid, set *Description* to **REC**. In the **Circuit Details** section, the *Description* and *Description Replacement* values will update to reflect the change. You can also use the *Description Replacement* field to make this change.
  - b. In the **Circuit Details** section, set *Circuit Length* to **Fixed** and enter **80** for the value. The *Voltage Drop* value will update to exceed 3%.
  - c. Set *Conductor Amps* to **30** — **#10**. The *Voltage Drop* value will update to a lower value.
4. Press the **Exit** button to close the dialog box.

# Creating Calculation Schedules

This section teaches you how to perform calculations on your electrical system and create fault and voltage drop schedules.

## Calculate the Project

Run the `Calculate Whole Project` command.

DM Electrical->  Calculate Whole Project

This will perform fault, voltage drop, wire sizing, and other calculations on your entire electrical model. This process takes a moment.

## Create and Modify the Fault Schedule

1. Run the `Fault Schedule` command. The **Fault Current Schedule** will open.

DM Electrical->  Schedules->Fault

2. Run the Revit `Modify Schedule->Insert` command. The **Select Fields** dialog box will open.

3. Make the following changes to the fault schedule:

- a. Remove the **Short Circuit Rating** field from the *Scheduled fields* list.
- b. Add the **DMET\_Panel\_BusAmps** and **DMET\_Panel\_Distribution\_System** fields to the *Scheduled fields* list.  
Design Master shared parameters always begin with **DMEN** for number types or **DMET** for text types.

4. Press the **OK** button to close the dialog box.

The fault schedule will be updated. You can make further changes to the schedule title, field headings, and column order the same way as any other schedule in Revit.

## Create and Update the Voltage Drop Schedule

1. Run the `Voltage Drop Schedule` command. The **Voltage Drop Schedule** will open.

DM Electrical->  Schedules->Voltage Drop

The voltage drop at some devices is probably very high. That is partly because the voltage drop through transformers is being included by default. This setting can be changed depending upon how you want to calculate voltage drop through a transformer.

2. Run the `Options` command. The **Options** dialog box will open.

DM Electrical->  Customization->Options

3. Set *Transformer voltage drop calculation method* to **Ignore transformers**.

4. Press the **OK** button to close the dialog box.

5. Run the `Calculate Whole Project` command.

DM Electrical->  Calculate Whole Project

The voltage drop schedule will update to show the new values.

## Calculate Part of the Project

1. Run the `Panel Edit` command. The **Panel Edit** dialog box will open.

DM Electrical->  Panel Edit

2. Select panel **LP-3B** and set *Main / Bus Amps* to **60**.

3. Select panel **MP-3B** and set *Main / Bus Amps* to **60**.

4. Select transformer **TP-3A** and set *Transformer kVA* to **150**.

5. Press the **Exit** button to close the dialog box.

6. Run the `Fault Schedule` command. The **Fault Current Schedule** will open.  
This is optional, but will make it easier to see the changes.

DM Electrical->  Schedules->Fault

7. Run the `Calculate Part of Project` command. The **Calculate Part of Project** dialog box will open.

DM Electrical->  Calculate Part of Project

8. Select panel **MDP-3** and press the **Calculate** button.

Calculations will be performed only on this panel and downstream devices. When the calculation finishes, the fault schedule will update to show the new values.

# Customizing Wire Ampacities

This section teaches you how to customize your wire ampacities and use your customization in future projects.

## Modify the Wire Ampacities

1. Run the `Wire Ampacities` command. The **Wire Ampacities** dialog box will open.

```
DM Electrical->  Customization->Wire Ampacities
```

2. Make the following changes to the **400** ampacity row:

- a. Set *Wire Size* to **3/0**.
- b. Set *Ground Wire Size: Service* to **#4**.
- c. Set *Ground Wire Size: Equipment* to **#6**.
- d. Set *Parallel Runs* to **2**.
- e. Set *X* to **0.042**.
- f. Set *R* to **0.077**.

3. Press the **Exit** button to close the dialog box.

4. Run the `Panel Edit` command. The **Panel Edit** dialog box will open.

```
DM Electrical->  Panel Edit
```

5. Select **SWB** from the list to see how the wire sizes have changed.

## Use Customization in Other Projects

There are two ways you can use your customization in future projects:

1. Use the customization commands in a project template file. Any projects created using the template will use your customization.
2. Use the `Export` and `Import` commands:
  - a. Use the customization commands in a project.
  - b. Run the `Customization Export` command. The **Save As** dialog box will open.

```
DM Electrical->  Customization->Export
```

- c. Enter a filename and save the **.dmc** file.

d. On your next project, run the `Customization Import` command and open the `.dmc` file to load your customization.

DM Electrical->  Customization->Import

# Creating a One-Line Diagram

The tutorials in this section teach you how to draft a one-line diagram in AutoCAD based upon your Revit model.

If you have Design Master Electrical for AutoCAD installed, the commands used in this section correspond to the commands located in the `One-Line Diagram` section of the `DM Electrical` menus. The icons for the commands are the same.

## Exporting to AutoCAD

This tutorial teaches you how to export your Revit model to AutoCAD.

### Export the Model from Revit

1. In Revit, run the `Export One-Line` command. The **Select database to export to** dialog box will open.

`DM Electrical->`  `Export One-Line`

The first time you run this command, the **Export One-Line Riser Diagram** dialog box will open. This dialog box explains the relationship between the one-line diagram in AutoCAD and your Revit model; it also provides helpful links. You can check the box to prevent this dialog box from opening again. Press the **OK** button to close the dialog box and open the **Select database to export to** dialog box.

2. Select the `dm_elec.dm` file you created in the [Starting a New Project](#) section and press the **Open** button.

The information in the Revit model will be exported to the database. This process takes a moment.

### Import the Model into AutoCAD

If you are using Design Master Electrical RT in AutoCAD, you do not need to do anything to import the information. The first time you run a command on the drawing, the information will be imported automatically.

If you have Design Master Electrical for AutoCAD installed instead of the Electrical RT add-in, you must import the information manually using the `RT: Import from Revit` command in AutoCAD.

**Ribbon:** `DM Electrical->One-Line Diagram->`  `RT: Import from Revit`

**Pulldown Menu:** `DM Electrical->One-Line Diagram->RT: Import from Revit`

You will only need to run this command once for the project.

## Inserting Distribution Equipment

This tutorial teaches you how to insert distribution equipment in your one-line diagram.

Open drawing **E-0.1**.

### Insert Distribution Equipment One Piece at a Time

1. Run the `Insert` command. The **Insert Distribution Equipment** dialog box will open.

**Ribbon:** DM Electrical RT->Distribution Equipment->  Insert

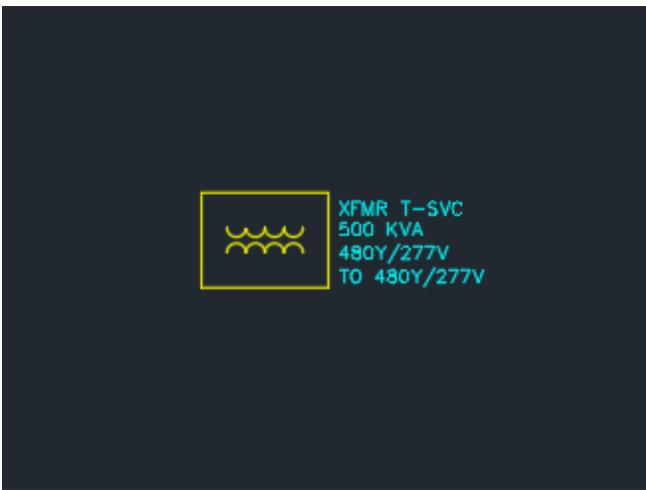
**Pulldown Menu:** DM Electrical RT->Distribution Equipment->Insert Distribution Equipment

2. Set *Tree* to **T-SVC**.

3. Set *Block* to **Transformer with Labels, One-Line, with Box**.

4. Press the **OK** button.

5. Follow the prompts at the command line to insert the transformer on the drawing.



6. Run the `Insert` command. The **Insert Distribution Equipment** dialog box will open.

**Ribbon:** DM Electrical RT->Distribution Equipment->  Insert

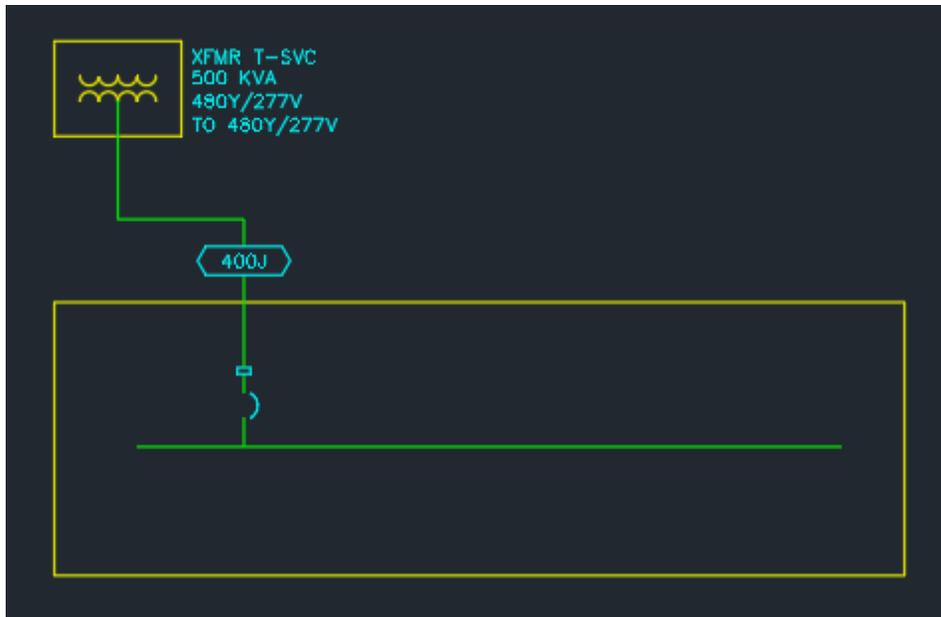
**Pulldown Menu:** DM Electrical RT->Distribution Equipment->Insert Distribution Equipment

7. Set *Tree* to **SWB**.

8. Set *Block* to **<Custom Panel Box with Bus>**.

9. Press the **OK** button.

10. Follow the prompts at the command line to insert the switchboard on the drawing.



## Generate Multiple Pieces of Distribution Equipment

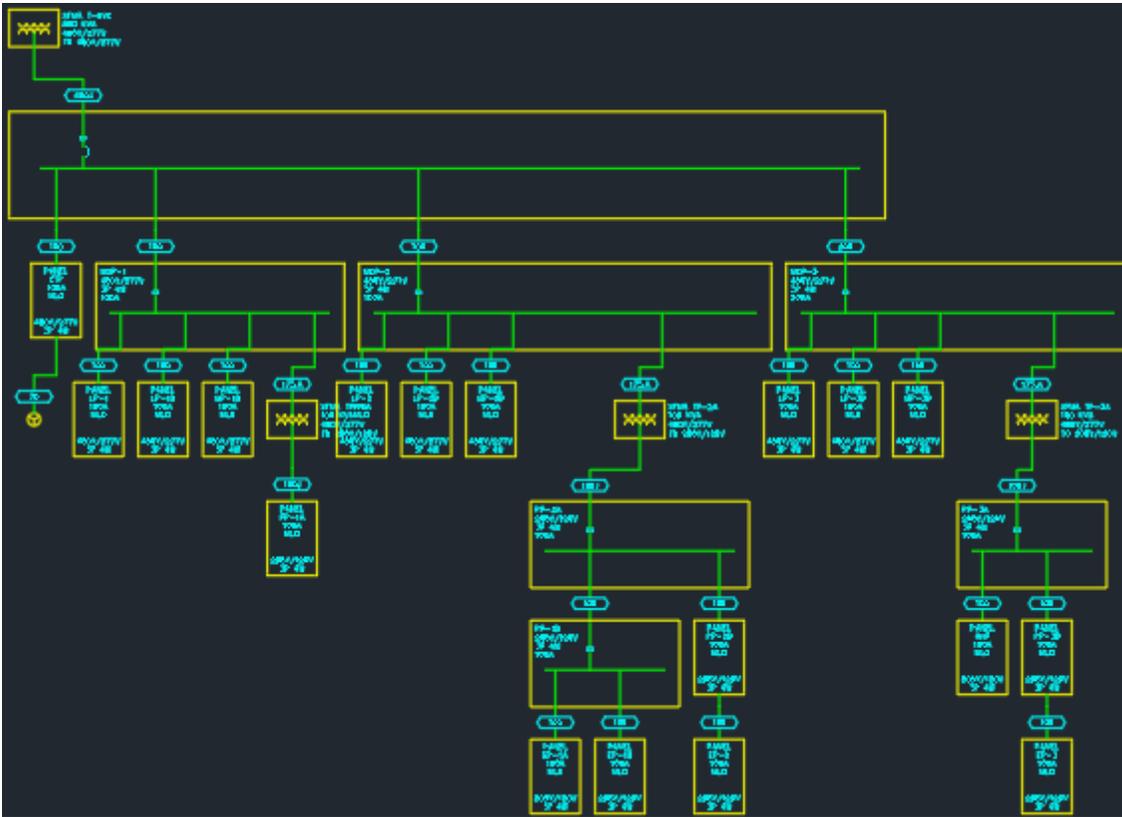
1. Run the `Generate One-Line` command.

**Ribbon:** DM Electrical RT->One-Line Diagram->  Generate One-Line

**Pulldown Menu:** DM Electrical RT->Generate->Generate One-Line

2. Set *Tree* to **T-SVC**.
3. Press the **OK** button.

The remaining devices will be inserted automatically for you.



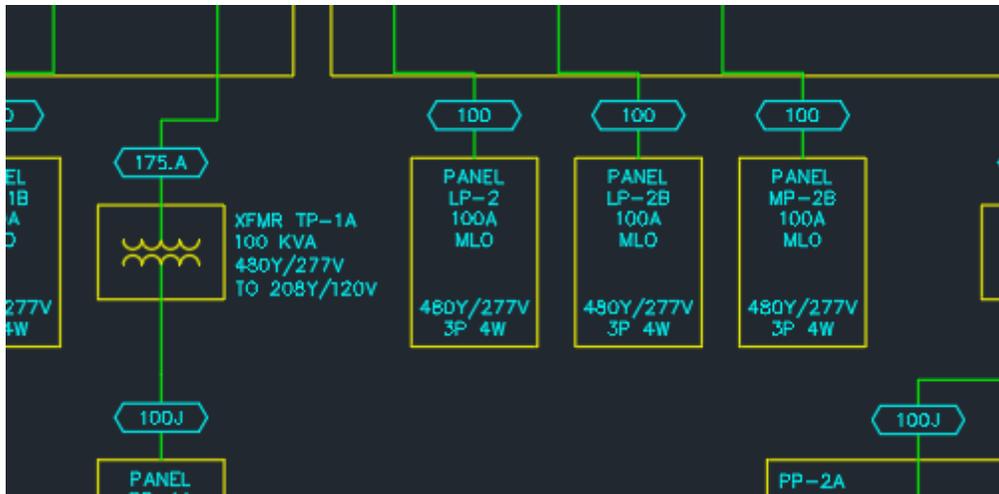
# Moving Distribution Equipment and Feeders

This tutorial teaches you how to move distribution equipment and feeders in your one-line diagram.

## Move Distribution Equipment

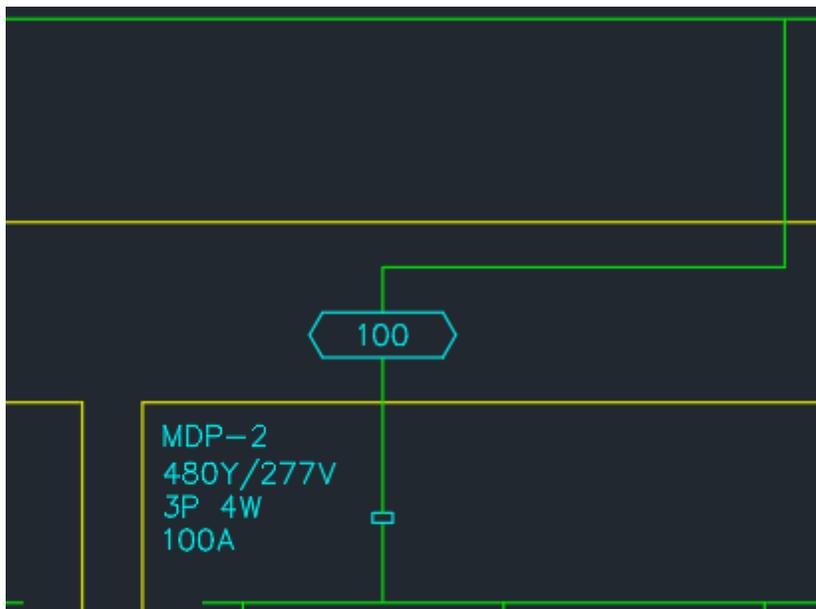
1. Run the AutoCAD **MOVE** command.
2. Select panels LP-2, LP-2B, and MP-2B and move them to a new location.

The feeders will follow the panels when they are moved.



## Move Feeder

1. Select the feeder between switchboard SWB and panel MDP-2.
2. Use the grips to move the portion of the feeder connected to SWB.



## Adding Labels

This tutorial teaches you how to insert labels in your one-line diagram.

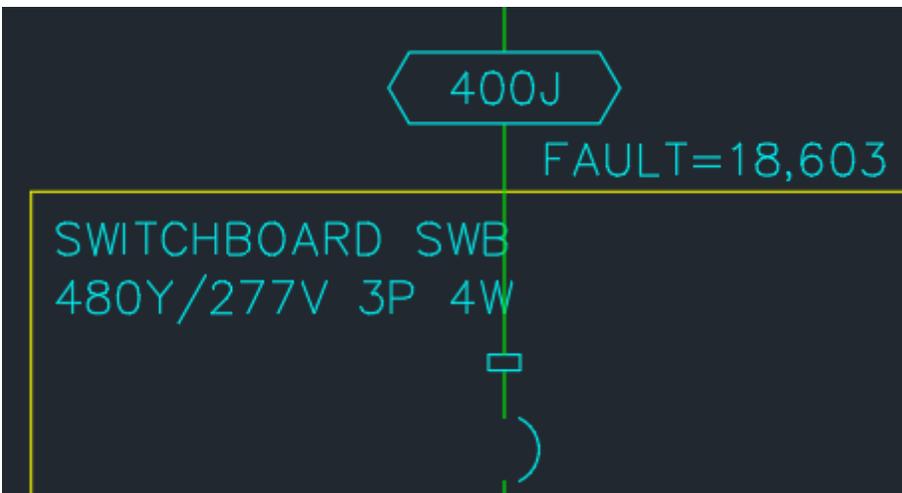
### Insert Labels

1. Run the `Insert / Modify` command.

**Ribbon:** DM Electrical RT->Labels->  Insert / Modify

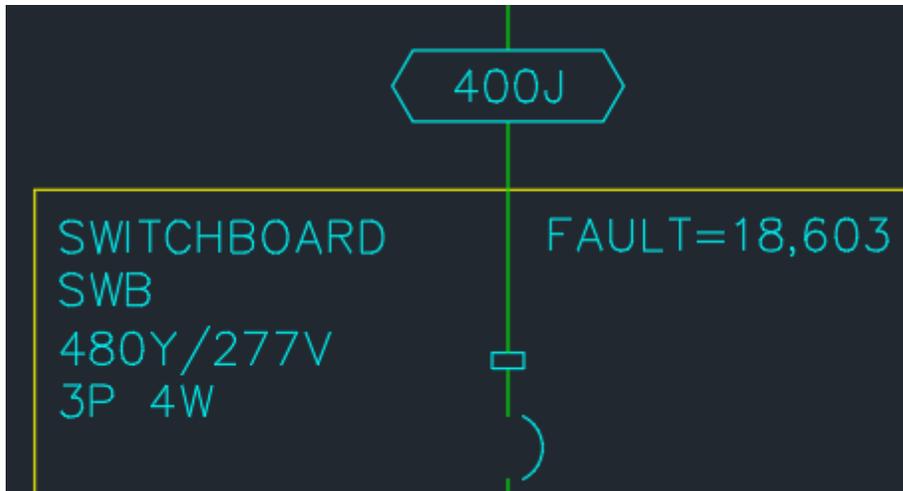
**Pull-down Menu:** DM Electrical RT->Labels->Insert and Modify Labels

2. Select switchboard SWB on the drawing. The **Insert and Modify Labels** dialog box will open.
3. In the *Description* row, set *Prefix* to **SWITCHBOARD**. Include a space after **SWITCHBOARD** so that there is a space between the label and the panel name.
4. In the *Volts* row, check the toggle.
5. In the *Fault @ Device (A)* row, set *Prefix* to **FAULT=**.
6. Press the **OK** button.
7. Specify the insertion point for the switchboard name label.
8. Press **ENTER** to place the volts label below the switchboard name label.
9. Specify the insertion point for the fault label.



## Move Labels

1. Select switchboard SWB.
2. Use the grip on the top left of the fault label to move its location.
3. Use the grips on the right side of the switchboard name and volts label to reduce the size so that the labels wrap.



## Adding Circuit Breakers

This tutorial teaches you how to insert circuit breakers on your feeders in your one-line diagram.

### Add Circuit Breakers

1. Run the `Change Graphics` command.

**Ribbon:** DM Electrical RT->Change->  Change Graphics

**Pulldown Menu:** DM Electrical RT->Change->Change Graphics

2. Select the feeder between switchboard SWB and panel MDP-2. The **Change Feeder Blocks** dialog box will open.
3. Set *OCB Block* to **Circuit Breaker**.
4. Press the **OK** button.

The circuit breaker will be inserted on the drawing.

## Updating the One-Line Diagram

This tutorial teaches you how to make changes to your one-line diagram.

Open the **Sample Systems Project** in Revit.

### Change the Distribution Equipment

1. In Revit, run the `Panel Edit` command. The **Panel Edit** dialog box will open.

DM Electrical->  Panel Edit

2. Select transformer **TP-1A** and set *Transformer kVA* to **150**.
3. Select panel **PP-1A** and set *Main / Bus Amps* to **150**.
4. Press the **Exit** button to close the dialog box.

## Update the One-Line Diagram to Match

1. In Revit, run the `Export One-Line` command. The **Design Master Electrical RT** dialog box will open.

DM Electrical->  Export One-Line

2. Select **Calculate and Export**.
3. In AutoCAD, open drawing **E-0.1** and run the `Update` command.

**Ribbon:** DM Electrical RT->One-Line Diagram->  Update

**Pulldown Menu:** DM Electrical RT->Update One-Line Diagram

The labels on transformer TP-1A, panel PP-1A, and their respective feeders will update to match the changes that were made.

## More Information about One-Line Diagrams

The previous tutorials cover the basics of using one-line diagrams. There are many features that were not covered.

Watch the [video overview of the one-line diagram](#) or visit the [How to Use One-Line Diagrams](#) article in the knowledge base to learn more.

# Where to Learn More

These tutorials cover the basics of Design Master Electrical RT. They do not cover all of the features and functionality you might use on a project. Here are a few ways you can learn more about the software.

## Visit the Knowledge Base

The [Knowledge Base](#) on our website features in-depth articles covering more features of Design Master Electrical RT.

## Send Us Your Project

For specific questions, sending us a copy of the project is usually the fastest way to get help.

Use the `DM Electrical RT->  Help->Send Project` command in Revit or AutoCAD to send us a copy of your project.

Running the `Send Project` command in Revit will open your browser to <http://www.designmaster.biz/send/>. Fill out the form and attach your project.

Running the `Send Project` command in AutoCAD will send the drawing and database to us along with your question. Not all networks allow our command to send the project to us. If that is the case, it will save a file to your desktop with your project in it. You need to manually send that file to [support@designmaster.biz](mailto:support@designmaster.biz).

Once we receive your project, we will take a look at it and get back to you with an answer.

Our official support hours are Monday through Friday, 9am to 5pm Eastern time.

Limited support is available evenings and weekends if you send a project or an email.

## Call or Chat With Us

You can call us for support at 866-516-9497 x2 or [contact us via live chat](#).

Our official support hours are Monday through Friday, 9am to 5pm Eastern time.

Phone support is only available during our official support hours.

For evening and weekend support, send us a project or an email.

## Attend Online Training

We offer online training for Design Master Electrical RT. Visit the [Online Training](#) page on our website for recordings of previous trainings and the current training schedule.

## Visit the User Manual

The [User Manual](#) on our website contains information about all of the commands in Design Master Electrical RT.

