



Mitsubishi Job Site Sheet

Branch Box Systems



Directions:

In order to receive efficient technical support on Mitsubishi multi zone system that use a branch box we require the following information. Please completely fill out this form with the actual readings taken using test equipment. Failure to provide all or accurate readings will result in a delay in diagnosing the system or a false diagnosis. The service switch SW1 of the outdoor unit can be used to gather some information. Some of the switch settings have been provided. Refer to the technical service manual for a full list SW1 switch settings and available data. If you have any questions please contact your local Meier Supply representative.

Complaint: (Give a detailed description of the service issue)

Outdoor Unit Information:

Model Number _____ Serial # _____ Service Reference # _____

Address settings: SW1 Setting _____ SW 2 Setting _____

Operation Mode: _____

Are there any faults being displayed at the outdoor unit? (Y or N)

If yes list the LED fault being displayed:

Are there any stored fault codes in the unit? _____ (SW1 setting 11010000)

Is LED 3 lit: (Y or N)

L1-L2 Voltage: _____

DC Bus Voltage (CNDC): _____

TB1B Voltage _____

TB3 Voltage (M-Net): _____

Outside air temperature (TH7): _____ (SW1 setting 10110010)

Target head psi Heating Mode (PdM): _____ (SW1 setting 10010110)

Target suction saturation temperature Cooling Mode (ETm): _____ (SW1 Setting 01010110)

Low side pressure at compressor (63LS): _____ (SW1 setting 01011100)

High side pressure at compressor (63HS): _____ (SW1 setting 01010010)

Suction line temperature (TH6): _____ (SW1 setting 00110010)

Liquid line temperature (TH2) : _____ (SW1 setting 10111100)

Discharge line temperature (TH4): _____ (SW1 setting 11010010)

What is the physical temperature of the gas pipe at the outdoor unit? _____

What is the physical temperature of the liquid pipe at the outdoor unit? _____

Has the system been checked for cross piping or wiring?



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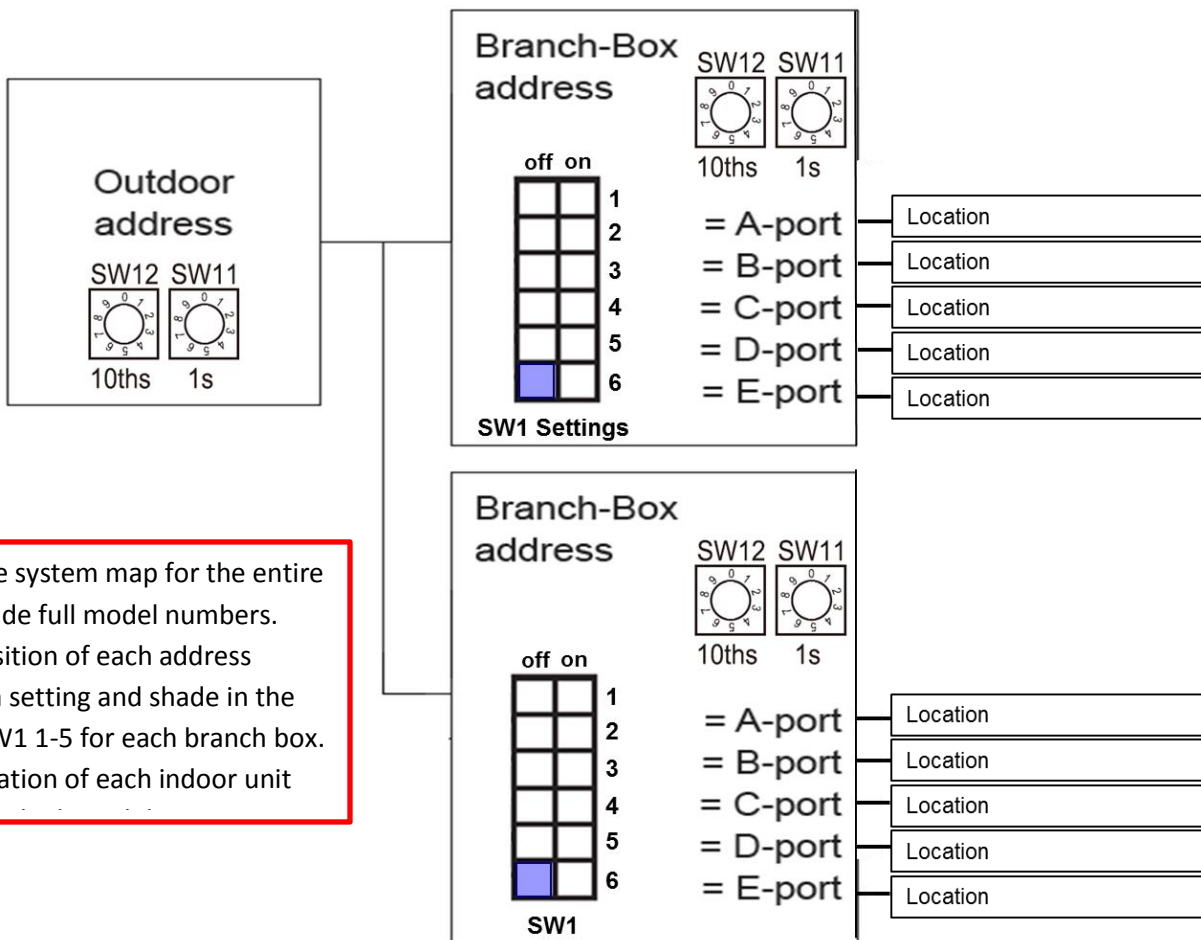
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System Configuration:

| Branch Box | Model # | | Serial # | | B.B.# |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Indoor Units | Circuit A | Circuit B | Circuit C | Circuit D | Circuit E |
| Location | | | | | |
| Model # | | | | | |
| Serial # | | | | | |
| Type of Controller | | | | | |

| Branch Box | Model # | | Serial # | | B.B.# |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Indoor Units | Circuit A | Circuit B | Circuit C | Circuit D | Circuit E |
| Location | | | | | |
| Model # | | | | | |
| Serial # | | | | | |
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Complete the system map for the entire system. Include full model numbers. Mark the position of each address rotary switch setting and shade in the position of SW1 1-5 for each branch box. Mark the location of each indoor unit



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Branch Box 01 Information:

Address Setting SW11 Setting: _____ SW 12 Setting: _____

Is LED 1 lit? (Y or N).

How many times is LED 2 Blinking? _____

What size and type of wire is used between the Outdoor units and the branch box between TB3 and TB5

What size wire is used between the indoor units and the branch box?

Gas pipe temperature (main): _____

Liquid pipe temperature (main): _____

TB5 Voltage M1-M2: _____

TB2B Voltage: _____

Zone A Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Zone B Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Zone C Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Zone D Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Zone E Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Branch Box Information (other):

Address Setting SW11 Setting: _____ SW 12 Setting: _____

Is LED 1 lit? (Y or N).

How many times is LED 2 Blinking? _____

What size and type of wire is used between the Outdoor units and the branch box between TB3 and TB5

What size wire is used between the indoor units and the branch box?

Gas pipe temperature (main): _____

Liquid pipe temperature (main): _____

TB5 Voltage M1-M2: _____

TB2B Voltage: _____

Zone A Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Zone B Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Zone C Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Zone D Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____

Zone E Voltages: S1-S2 _____ S1-S3 _____ S2-S3 _____



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Indoor Units on Branch Box 01:

Diagnostic Instructions:

Run all the units in heat or cool with the fan speed set to high. Set the controller as high or low as possible for the mode you are in. Wait 20 minutes then record the following information.

Are there any faults being displayed on the indoor units? (Y or N)
If yes list the LED fault being displayed and the indoor unit number.

Indoor Unit A

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____

Indoor Unit B

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____

Indoor Unit C

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____

Indoor Unit D

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____

Indoor Unit E

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____



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Indoor Units on other Branch Box:

Diagnostic Instructions:

Run all the units in heat or cool with the fan speed set to high. Set the controller as high or low as possible for the mode you are in. Wait 20 minutes then record the following information.

Are there any faults being displayed on the indoor units? (Y or N)
If yes list the LED fault being displayed and the indoor unit number.

Indoor Unit A

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____

Indoor Unit B

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____

Indoor Unit C

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____

Indoor Unit D

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____

Indoor Unit E

Mode: Cooling - Heating Set point _____ Fan speed setting _____ Type of Controller _____
 Fault code being displayed: _____
 Inlet Temperature DB°F _____
 Outlet Temperature DB°F _____
 Saturated liquid line temperature: _____
 Gas Pipe temperature: _____
 Degrees of Superheat or Subcooling: _____