



Electric Service Manual

Section 5 – Load Management



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Section 5 – Load Management

5.1 General Information

Some of the Load Management programs require the installation of a load control receiver and/or additional metering to be installed at your home or business. Below are the wiring guide drawings for the many different applications. To learn more about load management programs, contact our Energy Experts at 651-463-6243 or email us at: energyservices@dakotelectric.com

5.2 Installations without sub-metering

- 5.2.1 Cycled Central Air (DIA-11D)
- 5.2.2 Cycled Central Air and Controlled Water Heater (DIA-11F)

5.3 Submetered Installations without Current Transformers (CT)

- 5.3.1 Water Heater (DIA-5)
- 5.3.2 Central Air Conditioner (DIA-11A)
- 5.3.3 Electric Heat (DIA-10B) - 5kW max
- 5.3.4 Central Air and Electric Heat (DIA-11C)
- 5.3.5 Cycled AC with Metered Electric Heat - One Circuit (DIA-11E)
- 5.3.6 Electric Vehicle Charger 240V (DIA-5EV-240)
- 5.3.7 Electric Vehicle Charger 120V (DIA-5EV-120)
- 5.3.8 Electric Vehicle Charger 240V - more than 30 amps (DIA-5EV-240X)



5.4 Submetered Installations with Current Transformers (CT)

- 5.4.1 Heat Pump (DIA-1B)
- 5.4.2 Water Heater and/or Heat Pump (DIA-2)
- 5.4.3 Heat Pump and Baseboard Heat (DIA-3)
- 5.4.4 Heat Pump, Electric Furnace and Water Heater (DIA-4)
- 5.4.5 Two Water Heaters (DIA-6)
- 5.4.6 Central Air and Water Heater (DIA-7)
- 5.4.7 Central Air, Water Heater and Electric Heat (DIA-9)
- 5.4.8 Central Air, Water Heater and Electric Vehicle (DIA-9EV)
- 5.4.9 Electric Heat, Central Air and Storage Heat (DIA-10A)
- 5.4.10 Central Air and Storage Heat (DIA-10C)
- 5.4.11 Central Air, Water Heater and Elect Boiler (DIA-10D)
- 5.4.12 Multiple AC units (DIA-12)
- 5.4.13 Multiple AC units and Water Heater (DIA-13)
- 5.4.14 Central Air and Hot Tub (DIA-14)
- 5.4.15 Central Air, Hot Tub and Pool Pump (DIA-14A)
- 5.4.16 Sub Metered Multiple Electric Vehicles Time of Use (DIA-15)

5.5 Miscellaneous Guide Drawings

- 5.5.1 Central Air or Heat Pump Control Wiring (DIA-7A)
- 5.5.2 Cycled Central Air or Heat Pump Sub Metered (DIA-11B)
- 5.5.3 Dual Meter Socket - Off Peak Wiring (DIA-57)
- 5.5.4 Load Control Receiver - Lights (DIA-58)
- 5.5.5 Time of Use Metering
 - a. Electric Vehicle Charger 240V (DIA-50-240)
 - b. Electric Vehicle Charger 120V (DIA-50-120)