

ELECTRIC SOLDER POT

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1. GENERAL

1.01 This section covers the electric C Solder Pot intended for use in manholes, cable vaults, and central offices and other locations on Company and subscriber premises where constant solder temperature is desirable, such as solder dip splicing, or where the open flame from a propane furnace would be hazardous or objectionable.

1.02 This section has been reissued to inform that the B Solder Pots, both the 20-pound and 35-pound capacity, have been rated "MD" and the C Solder Pot, 20-pound capacity, is no longer available from the manufacturer. A new 30-pound capacity C Solder Pot is available and supersedes both the B Solder Pots and the 20-pound capacity C Solder Pot. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted. Information relating to superseded solder pots has been retained in the section for reference.

1.03 The new C Solder Pot differs from the superseded C Solder Pot in overall size and general appearance as well as the significant difference of having larger capacity (30 pounds instead of 20 pounds) and the provision for grounding the solder pot shell through the 3-conductor power cord terminated in a 3-wire rubber cap (not provided on superseded C Solder Pot).

2. DESCRIPTION

2.01 The C Solder Pot (Fig. 1) consists of a welded steel crucible with a 30-pound capacity, two electric heating elements, a metal shell insulated

from the crucible and elements, a heat baffle, a steel carrying bail with eye, and a flexible power cord permanently attached to the pot through a gasketed conduit fitting.

2.02 A two-position, HI-LO, tumbler switch (no OFF position) in a grounded metal housing controls the heating of the solder and regulates the temperature of the heated solder. The switch housing is at the end of a 20-foot long cord, which facilitates placing the switch outside of a manhole. A 6-foot long cord from the switch housing terminates in a 3-wire rubber cap (plug).

2.03 The C Solder Pot operates on 115 volts ac or dc with a current consumption of approximately 4.5 amperes on the LO setting and 10.5 amperes on the HI setting. When operated on HI, the solder pot will heat 30 pounds of solder from a temperature of approximately 70°F to 750°F within 60 minutes. When operated on LO at an ambient temperature of 70°F, the solder pot will maintain 30 pounds of heated solder at a minimum stabilized temperature of 750°F.

3. PRECAUTIONS

3.01 The C Solder Pot (and the superseded C Solder Pot) is the only solder pot authorized for use in manholes and cable vaults.

3.02 When using a portable generator as the power source for an electric solder pot, make certain the generator has a current rating adequate to prevent overloading.

3.03 Never connect more than one solder pot at a time to an electrical circuit.

3.04 Never connect an extension cord to the solder pot cord for the purpose of placing the HI-LO switch within the manhole or cable vault.

3.05 Care shall be taken to ensure that the cord between the electrical outlet and the solder pot is placed where it will not interfere with the movement of pedestrians or workmen.

3.06 Eye protection shall be worn in operations involving melting and using wiping solder.

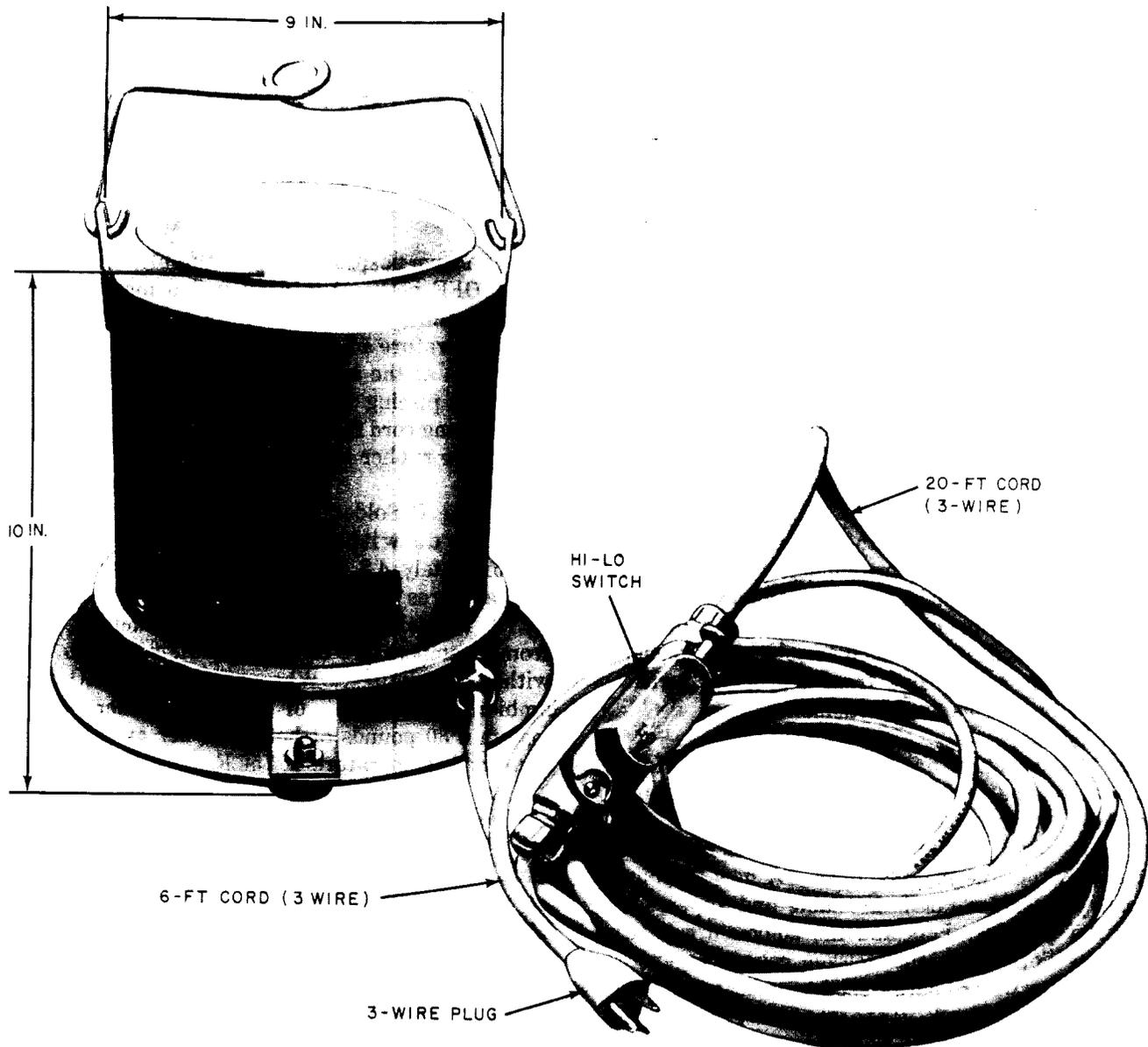


Fig. 1—C Solder Pot

- 3.07** Exercise caution to avoid burns while handling and moving pots containing hot solder.
- 3.08** Do not place a solder pot in a tool compartment before it has been allowed to cool thoroughly.
- 3.09** Before using a solder pot in a manhole, cable vault, or splicing pit, test the atmosphere as outlined in Section 620-140-501.
- 3.10** At cable vaults equipped with special 3-wire heater receptacles, the current flow is controlled by a switch located just outside the cable

vault. This switch must be open when the C Solder Pot Cord is connected; also, the switch must be opened when the pot is disconnected. The setting of the HI-LO switch must be preset and not changed once it is set, without first opening the outside switch of the cable vault. At cable vaults and splicing pits not equipped with special 3-wire heater receptacles, all circuit connections for the solder pot must be made outside of the vault or splicing pit, and switch settings may be changed only when the power cord is disconnected. Where 3-wire receptacles are not provided, ground the solder pot in accordance with the methods for grounding power tools covered in Section 620-103-010.

3.11 Before connecting the solder pot to commercial power, be certain of proper voltage and adequate wiring for the current required. Obtain approval from the building owner or authorized agent before making connections at subscriber locations.

4. MAINTENANCE

4.01 Before each use, inspect the solder pot, cord switch, and plug for signs of wear or damage. If damage or excessive wear is detected (the cord, switch, and plug should be closely inspected) remove the solder pot from service.

4.02 No repairs should be attempted in the field. If the solder pot does not operate properly, if the cord is frayed, or if the switch or plug is damaged, attach a tag indicating the trouble and return the entire unit for repair in accordance with local instructions.

5. SUPERSEDED SOLDER POTS

Superseded C Solder Pot

5.01 The superseded C Solder Pot is illustrated in Fig. 2. It is a 20-pound capacity electric

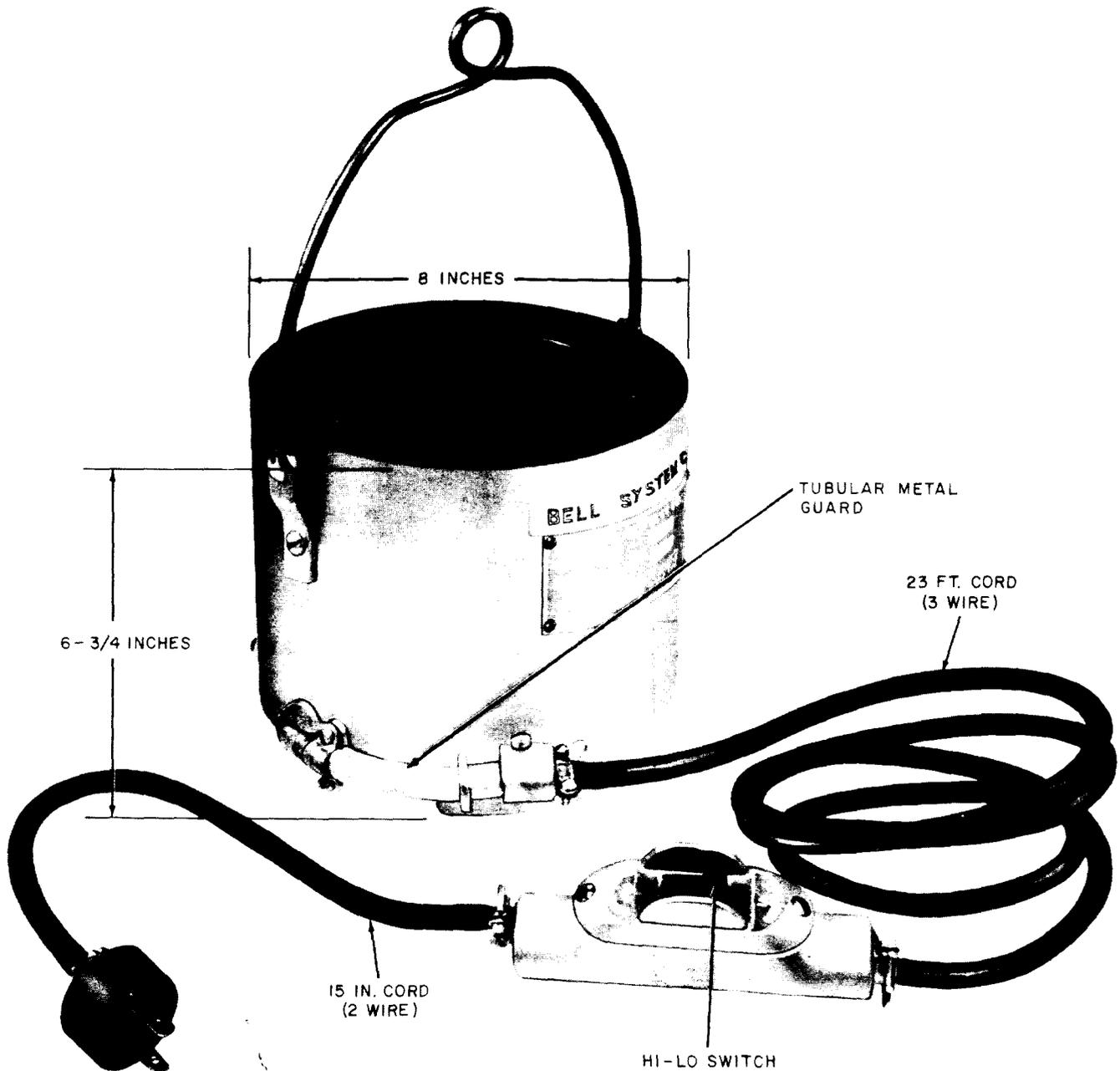


Fig. 2—Superseded C Solder Pot

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solder pot intended for use with a portable generator as a power source. It operates on 115 volts ac or dc with maximum current consumption of 7 amperes. The shell of the pot must be grounded with a B Grounding Cord when the solder pot is connected to a commercial power source.

5.02 Precautions and maintenance covered in Parts 3 and 4 apply to the use of the superseded C Solder Pot.

B Solder Pots

5.03 The B Solder Pots are illustrated in Fig. 3 and 4. The B Solder Pot is either a 20-pound or 35-pound capacity electrical solder pot primarily intended for use on subscriber premises. The B Solder Pot Cord (Fig. 5) is a 25-ft long, 3-conductor cord used to connect the solder pots to a power source and provide for grounding the solder pot shell. Use only the D Extension Cord to connect the solder pot when an extension cord is necessary. The B Solder Pot will operate on 110-120 volt ac

circuits only with maximum current consumption of about 8 amperes for the 20-pound solder pot and about 11 amperes for the 35-pound solder pot.

5.04 Because of possible arcing of the thermostat or the cord when disconnected, *the B Solder Pot should not be used in manholes or cable vaults.* Refer to 3.03, 3.05 thru 3.08, and 3.11 for applicable precautions and to Part 4 for applicable maintenance.

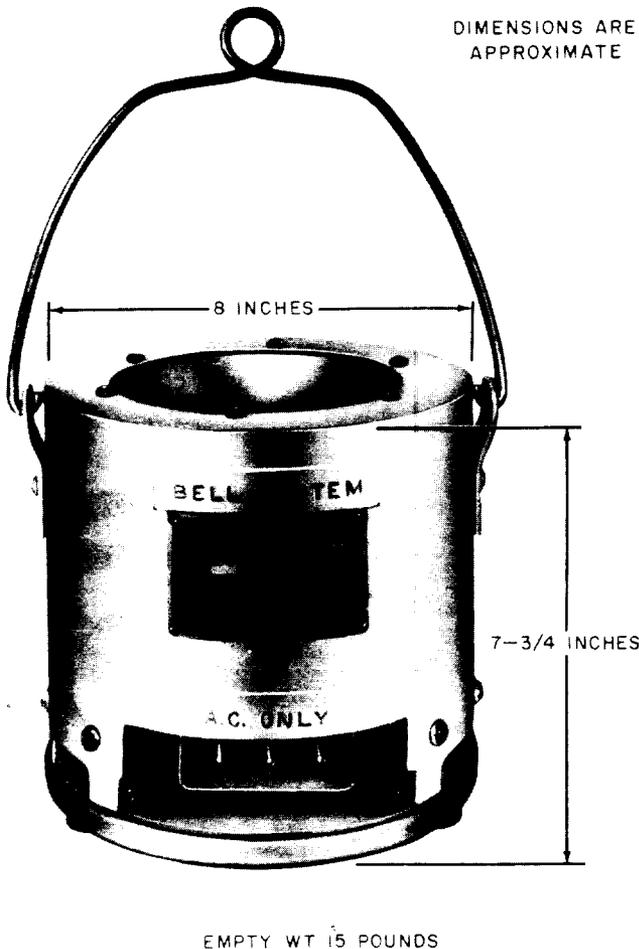


Fig. 3—20-Pound B Solder Pot (MD)

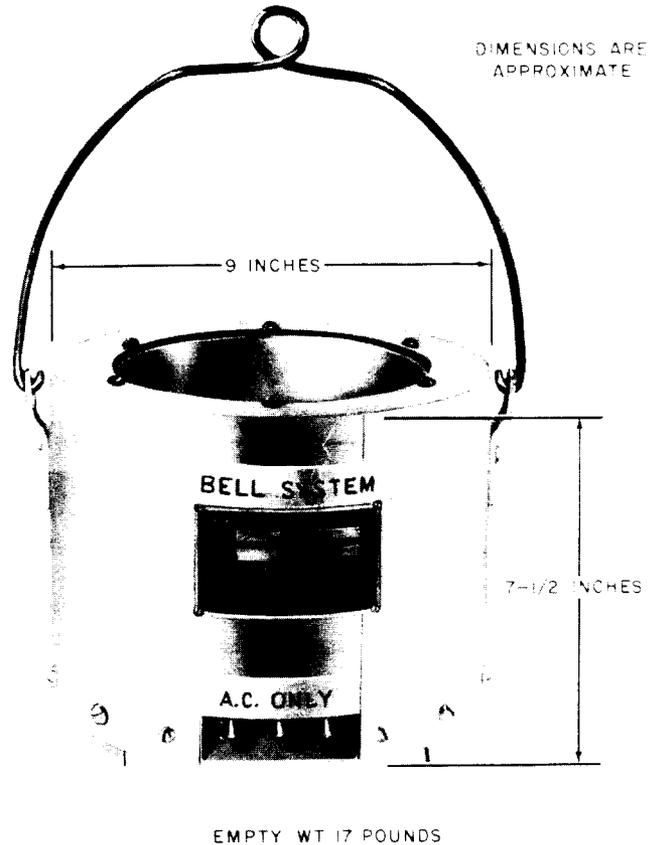


Fig. 4—35-Pound B Solder Pot (MD)

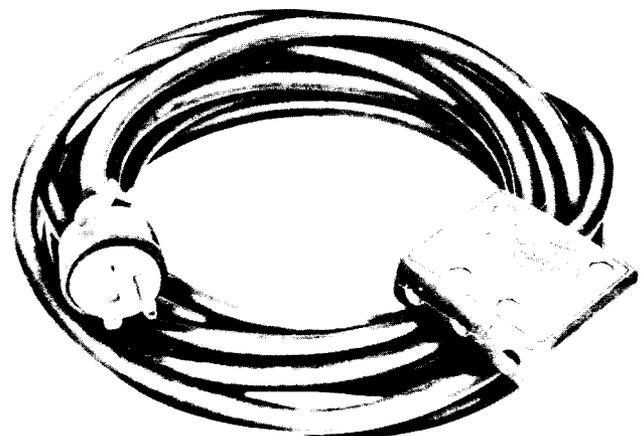


Fig. 5—B Solder Pot Cord (MD)