

Diamond/Sachs Communication Products
Meter Box Ground Clamps

1. GENERAL

- 1.001 This section is a cover sheet for the Diamond/Sachs Communication Products, Meter Box Grounding Clamps. This section is reproduced with permission of Diamond/Sachs Communication Products.
- 1.002 Whenever this section is reissued the reason (s) for reissue will be listed in this paragraph.
- 1.003 The Diamond/Sachs Meter Box Grounding Clamps are designed and built as an alternate means for obtaining an external ground source for grounding telephone equipment at a premise. The SC51-1BE Corner Meter Box Ground Clamp attaches to the corner of the meter box. The 40-20002 and 40-20003 Meter Box Ground Clamps attaches to the side of the meter box.
- 1.004 If corrections are required in the attached document, use Form E-3973 as described in Section 000-010-015.
- 1.005 If equipment design and/or manufacturing problems should occur, refer to Section SW 010-522-906 for procedures on filing an Engineering Complaint.

2. ORDERING PROCEDURE

- 2.001 The Diamond/Sachs Meter Box Grounding Clamps may be ordered via the Southwestern Inventory Management System (SWIMS).

Attachment: Diamond/Sachs Meter Box Grounding Clamp System

PROPRIETARY

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Telephone Company except under written agreement.

DIAMOND COMMUNICATION PRODUCTS

CORNER METER BOX GROUND CLAMP

SC51-1BE

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PROPRIETARY

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1. General

- 1.01 Diamond/Sachs Corner Meter Box Ground Clamp (SC51-1 BE) provides a convenient, quick and reliable bonding installation to the Meter Box or Meter Socket.
- 1.02 Diamond/Sachs U.L. Listed Corner Ground Clamp should only be used where local electrical codes permit.
- 1.03 The Corner Ground Clamp is not intended as the primary grounding or bonding method.

Other considerations:

- 1. Power Ground Rod
- 2. Power Ground Wire
- 3. Power Conduit

2. Description

- 2.01 The triangularly shaped Corner Ground Clamp is designed to engage the top lips of the Meter Box/Socket.

Two lanced surfaces located at the bottom of the sides of the clamp protrude inwardly so they will engage the Meter Box Lips.

- 2.02 An adjustment bolt applies pressure against the top of the Meter Box. A hexnut and washer are assembled to the adjustment bolt to secure the ground wire. #6 AWG solid copper wire (max.).

3. Installation

- 3.01 Before placing the Corner Ground Clamp on the corner of the Meter Box, it may be necessary to loosen the adjustment bolt for adequate clearance. DO NOT PLACE WHERE THE CLAMP WILL INTERFERE WITH COVER REMOVAL.

- 3.02 Push the Corner Ground Clamp against the Meter Box Corner so that lanced surfaces are below the Meter Box Lips.

- 3.03 To assure a clean bare metal mating surface on Meter Box, scrape away paint or rust using a knife or sandpaper.

To prevent corrosion of the bare metal, apply a dab of RTV sealant, silicon or similar compound where the adjustment bolt makes contact with the Meter Box.

- 3.04 Tighten adjustment bolt against the top surface of the Meter Box to 45 to 50 in. lb. Torque, approximately 1 1/4 turns after bolt is finger tight.

- 3.05 Form a loop in the end of ground wire (up to #6 AWG solid copper) so that it fits around the bolt and under the washer.

- 3.06 Tighten the nut to 45-50 in. lb. Torque.

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DIAMOND COMMUNICATION PRODUCTS

ADJUSTABLE METER BOX GROUND CLAMP

40-20002 AND 40-20003

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PROPRIETARY

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1. General

- 1.01 Diamond's Adjustable Meter Box Ground clamp provides a convenient, quick and reliable common bonding installation to the Meter Box or Meter Socket.
- 1.02 Diamond's U.L. Listed MBGC should only be used where local electrical codes permit.
- 1.03 The MBGC is not intended as the primary grounding or bonding method.

Other considerations:

- 1. Power Ground Rod
- 2. Power Ground Wire
- 3. Power Conduit

2. Description

- 2.01 Two versions of clamps accommodate most square or rectangular Meter Boxes / Sockets.

The short version (40-20002) clamping range is 7" to 10 1/4".

The long version (40-20003) has 11 1/2" to 15 1/4" clamping range.
- 2.02 Both versions consist of two interlocking sections. (See Figure 1). Part one has two rivets which mate with slots in part two.

Part one also has an adjustment bolt and a bonding connector which accommodates up to #6 AWG solid ground wire.

Part two has dual points to assure a positive ground connection to the Meter Box.

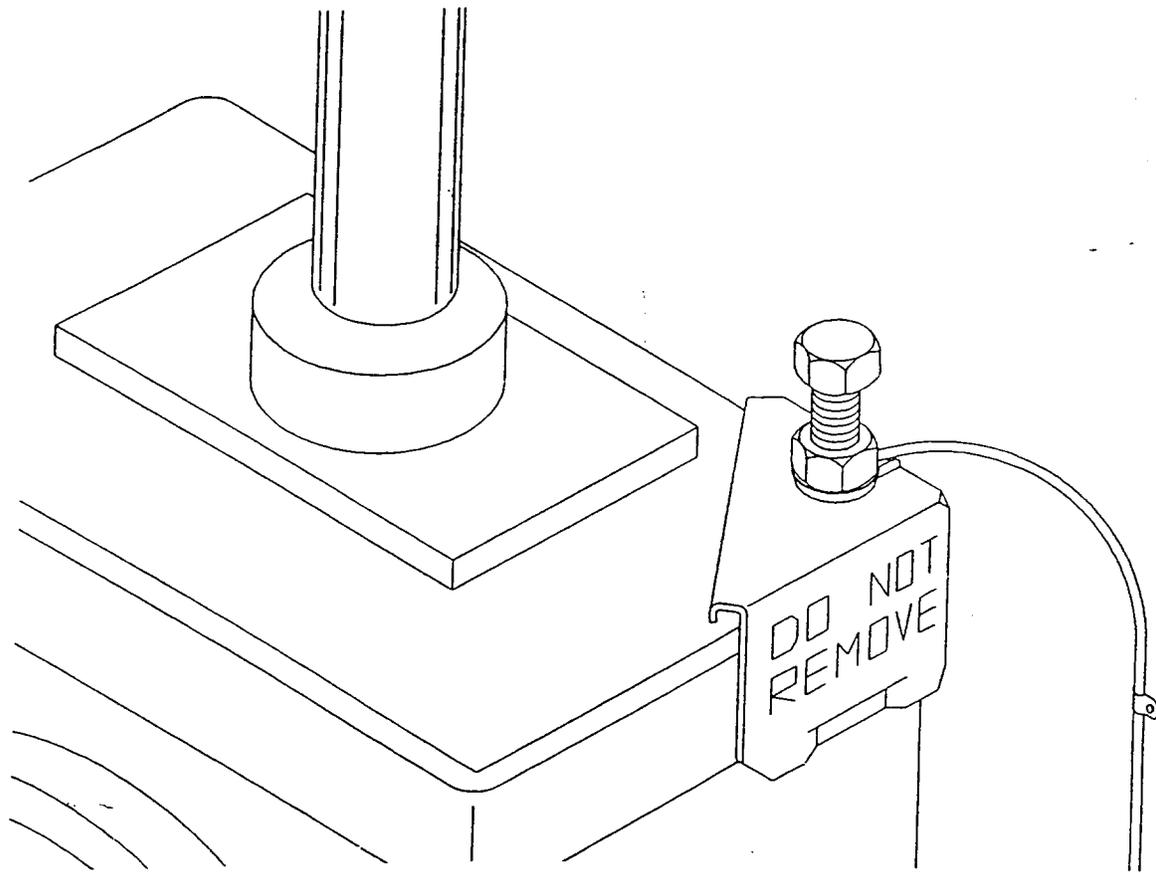
3. Installation

- 3.01 Assemble MBGC parts together selecting slots best suited for customer's meter box.
- 3.02 Place assembled MBGC Vertically on either side of the Meter Box (pointed bolt at the bottom). Do not place where clamp will interfere with cover removal.
- 3.03 To assure a clean bare metal mating surface on Meter Box, scrape away paint or rust using a knife or sandpaper.

To prevent corrosion of the bare metal, apply a dab of RTV sealant, silicon or similar compound where the dual points on part two and the pointed bolt of part one will make contact with the Meter Box.
- 3.04 Tighten adjustment bolt against the top surface of the Meter Box to 45 to 50 in. lb. Torque, approximately 1 1/4 turns after bolt is finger tight.
- 3.05 Insert the End of the Ground Wire into the Bonding Connector Hole (Up to #6 AWG Solid copper).
- 3.06 Tighten the nut to 45-50 in. lb. Torque.

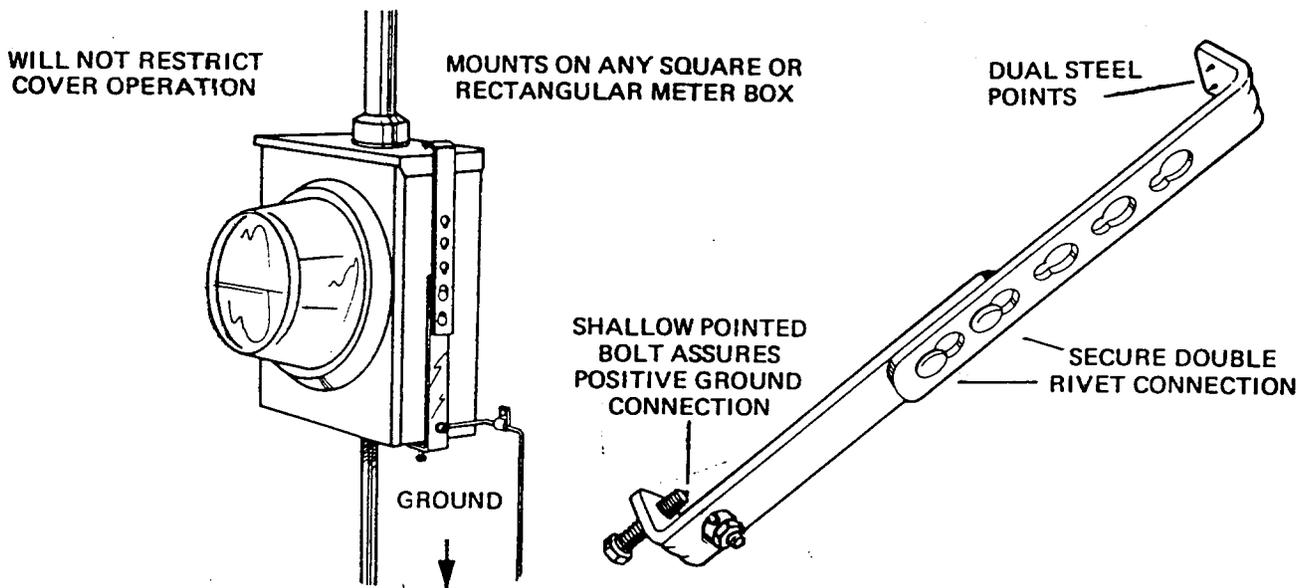
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CORNER METER BOX GROUND CLAMP

SC51-1BE



ADJUSTABLE METER BOX GROUND CLAMP

40-20002 AND 40-20003

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