FOUNDATION AND ASSOCIATED APPARATUS
IDENTIFICATION AND INSTALLATION
KS-21976

1. GENERAL

1.01 This section contains information on the KS-21976, Lists 1 and 11 foundations (Fig. 1 and 2), respectively; also included is the KS-21976, List 2 drive tool (Fig. 3) and alternate A.B. Chance drive tool (Fig. 4). The Lists 3 and 13 tread plates and Lists 4 and 14 pad fixtures are shown in Fig. 5, 6, and 7. A KS-22433, List 1 traffic guard post (Fig. 9), which can be installed in conjunction with either foundation is also included.

1.02 This section is reissued to:

- Add KS-21976, List 11 foundation, List 13 tread plate, List 14 pad fixture, alternate A.B. Chance drive tool
- Add information on the KS-22433, List 1 traffic guard post

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

2. IDENTIFICATION

2.01 The Lists 1 and 11 foundations are screw-type anchoring devices which can be used in lieu of a poured concrete base, to support a KS-20842 SENTRY* telephone mounting.

2.02 Each foundation has the following features.

(a) The main body consists of a 6-inch diameter steel pipe, 48 inches long.

(b) One end of the pipe is a mounting plate for attaching the drive tool and telephone mounting.

*Trademark of Western Electric.

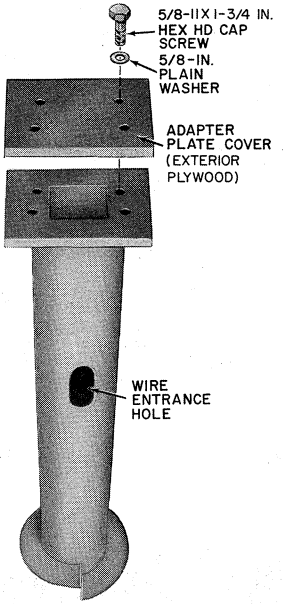


Fig. 1—KS-21976, List 1 Foundation

(c) On the other end is an 11-5/6 inch diameter helix and a 12-inch long pilot.

(d) Each foundation weighs approximately 85 pounds.

2.03 The List 1 foundation is intended to mount the KS-20842, List 40, 41, or 43 post. The List 11 foundation is used to mount the KS-20842, List 141 or 143 post. The List 11 may also be used to mount the List 40, 41, or 43 post.

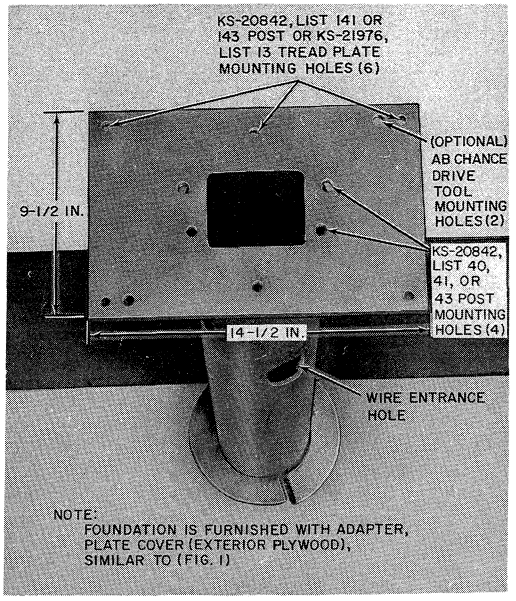


Fig. 2—KS-21976, List 11 Foundation (See Note)

2.04 The List 2 drive tool (Fig. 3), is a round tool designed to interface between the List 1 or 11 foundation and the line truck digger shaft. The alternate A.B. Chance drive tool (Fig. 4), is rectangular in shape and serves basically the same function as the List 2, however, it is intended for use only with the List 11 foundation.

2.05 The KS-21976, Lists 3 and 13 tread plates, (Fig. 5 and 6), respectively, are aluminum plates which are used as pads for the customer to stand on while using the phone. The List 3 is intended for use with List 1 foundation only and the List 13 with the List 11 foundation only.

2.06 The List 4 pad fixture and List 14 pad fixture (Fig. 7) are similar, except for the cutout for the foundation. They facilitate the construction of a concrete (or equivalent) floor pad. The List 4 pad is intended for use with the List 1 foundation and the List 14 with the List 11 foundation.

ORDERING INFORMATION

Note: Since one drive tool and one pad fixture can be used an infinite number of

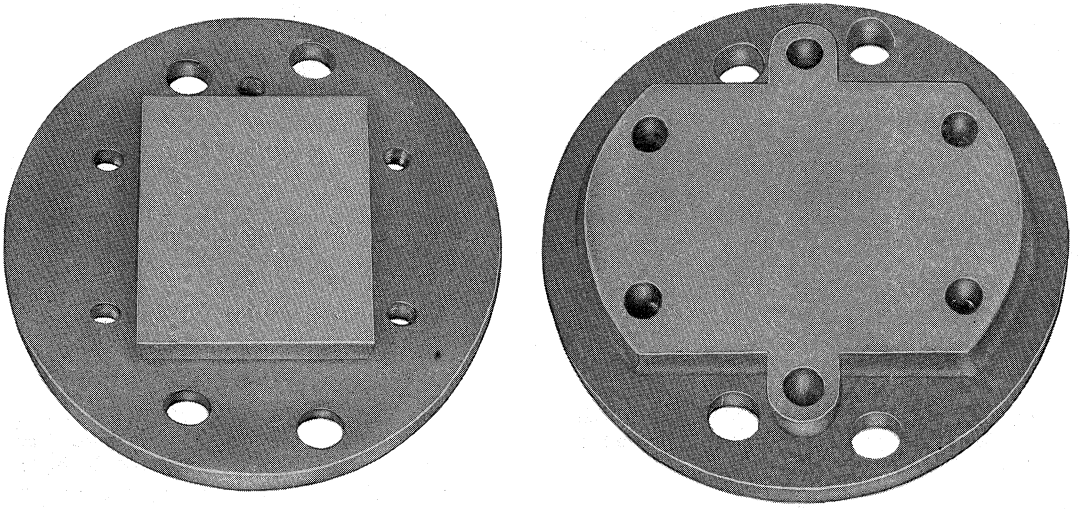


Fig. 3—KS-21976, List 2 Drive Tool

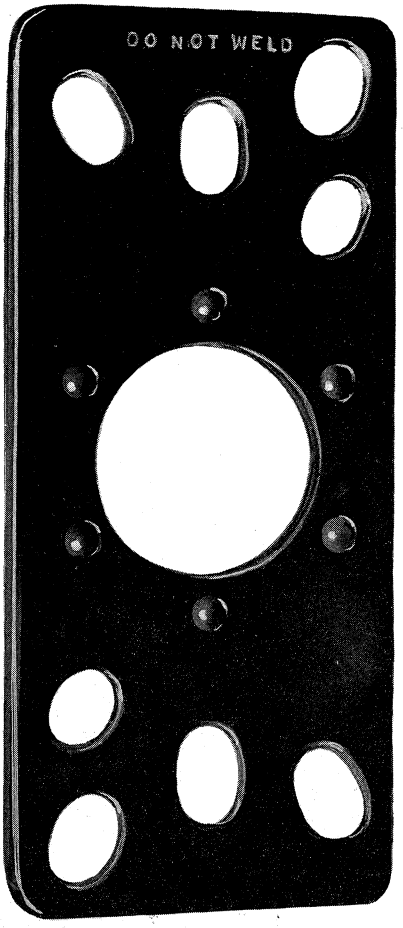


Fig. 4—Drive Tool, A.B. Chance (Alternate)

times, it is not necessary to order these items and the foundation and trend plate on a 1 to 1 basis.

2.07 Following is an example of a typical order:

5—Foundations KS-21976, List 1 or 11

5—Tread Plates KS-21976, List 3 or 13

1—Pad Fixture KS-21976, List 4 or 14

1—Drive Tool KS-21976, List 2 or alternate A.B. Chance drive tool

3. INSTALLATION (Fig. 8)

A List 1 Foundation, Used With KS-20842, Lists 40, 41, and 43 Posts

3.01 Assemble the List 2 drive tool to the line truck kelly bar adapter.

3.02 Remove the plywood coverplate from top of foundation and assemble foundation to the drive tool using hex head cap screws and washers furnished with the foundation.

B. List 11 Foundation Used With KS-20842, Lists 141 and 143 Posts or Lists 40, 41, and 43 Posts

3.03 Assemble the List 2 or alternate A.B. Chance drive tool to the line truck kelly bar adapter.

3.04 Remove the plywood coverplate from the foundation and assemble the List 11 foundation to the List 2 or A.B. Chance drive tool, using hex head cap screws and washers furnished with the foundation.

C. Line Truck Digger Shaft Attachment For List 1 or 11 Foundation

3.05 Attach the digger shaft adapter to the digger shaft.

Note: A digger shaft that has been modified to approximately 24-inches long is recommended.

3.06 Maneuver the digger shaft until the pilot of the foundation is over the exact location of installation.

3.07 Lower the foundation until the pilot is forced into the ground and the helix is flush with the ground surface.

3.08 Using a suitable carpenter's level, ensure that the foundation is plumb in every axis.

3.09 Apply downward pressure on the foundation and rotate it in the ***dig*** direction.

3.10 When the helix penetrated approximately 1 foot into the ground, verify that foundation is still plumb.

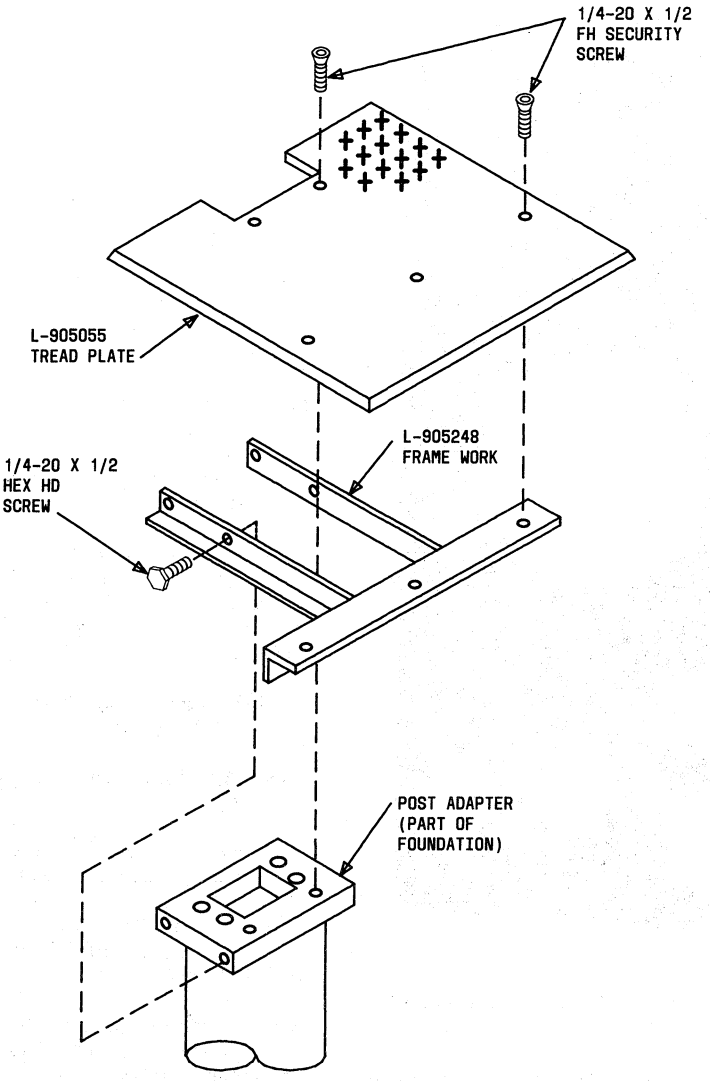


Fig. 5—Installation of KS-21976, List 3 Tread Plate

3.11 Continue to install the foundation, applying downward pressure and correcting the digger shaft's orientation so the foundation embeds itself in one smooth continuous motion.

Note: The top edge of the foundation should be level with the surface upon which the customer will stand. When using the List 4 or 14 fixture, leave top edge of foundation up enough to allow for the poured concrete (or equivalent).

3.12 When the foundation's post adapter is to the correct depth, stop the digger, remove

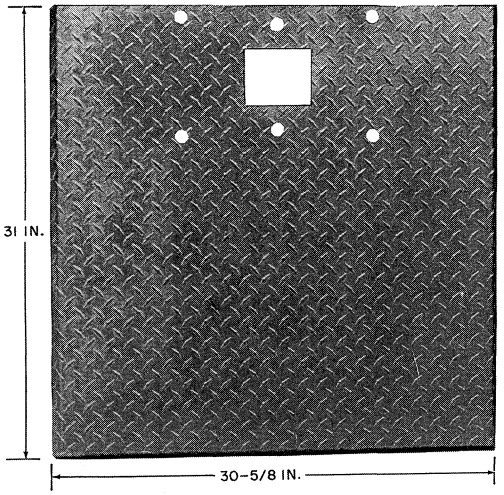


Fig. 6—KS-21976, List 13 Tread Plate

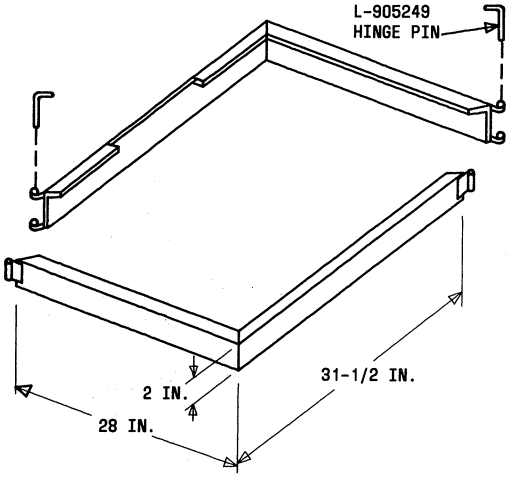


Fig. 7—KS-21976, List 4 Pad Fixture

the drive tool from the foundation and the digger shaft.

Replace the plywood adapter plate cover if the mounting is not available for immediate installation.

3.13 Holes are provided on the side of the foundation for underground wiring.

D. List 3 or 13 Tread Plate (Fig. 5 and 6)

3.14 Install the List 3 tread plate on the List 1 foundation as shown in Fig. 5. The List 13 tread plate mounts on top of the List 11 foundation; then the post is mounted. Use hardware provided with the foundation.

E. List 4 or 14 Pad Fixture, (Fig. 7)

3.15 Place the cutout portion of the fixture around the rear of the foundation. Fasten the two sections together using the hinge pins furnished with the fixture.

3.16 Pour the material (concrete, Por-Rock) in the fixture per local regulations. After the concrete sets up, pull the hinge pins from the fixture and retrieve the two sections. Retain the fixture for future use.

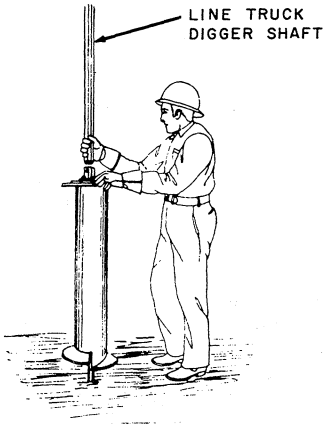
F. KS-20842 SENTRY Telephone Mounting

3.17 For installation procedures on the mounting, refer to Section 508-452-100.

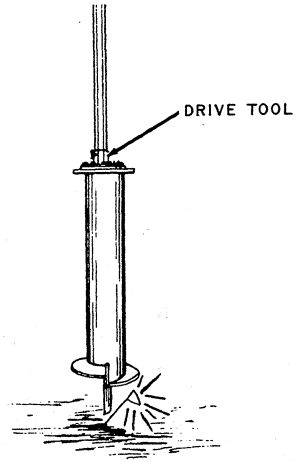
4. KS-22433, LIST 1 TRAFFIC GUARD POST, (Fig. 9 and 10).

4.01 The KS-22433, List 1 traffic guard post is intended for use in conjunction with the KS-21976, Lists 1 and 11 foundations. This guard post(s) can be used in parking lots, near roadways, etc. to protect telephone facilities from vehicular traffic.

4.02 It consists of two sections of 3-inch diameter pipe and an aluminum cover. The pipe sections are 36-inches long and have a 6-1/4 inch diameter mating flange welded on one end of each



VIEW A



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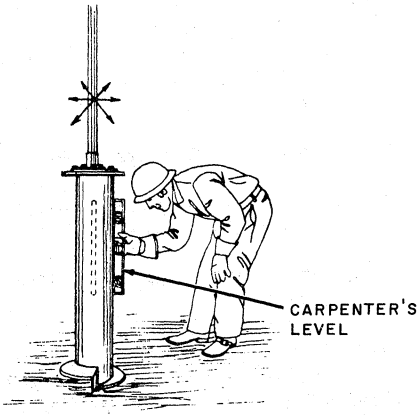

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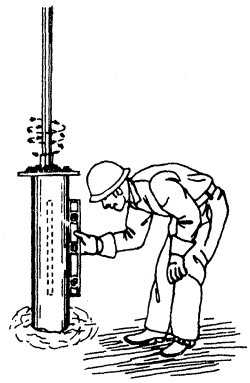

VIEW D

Fig. 8—Installation Procedures

pipe. The lower section has a helix welded to the end opposite the mating flange. The helix is used for driving the section completely into the ground (Fig. 10). The upper section has a cap welded on the end opposite the mating flange. This prevents water and debris from entering the upper section.

4.03 With the bottom section buried in place, the top section is mounted to it with three 1/2-13 by 1-inch screws and plain washers. The aluminum cover is then fastened over the flanges with two No. 10-32 security screws.

4.04 A digger truck or high torque type device is required for installation of the lower section of the guard post. The flange on the lower section of the post will interface with the standard kelly bar adapter that is normally a part of the digger truck equipment.

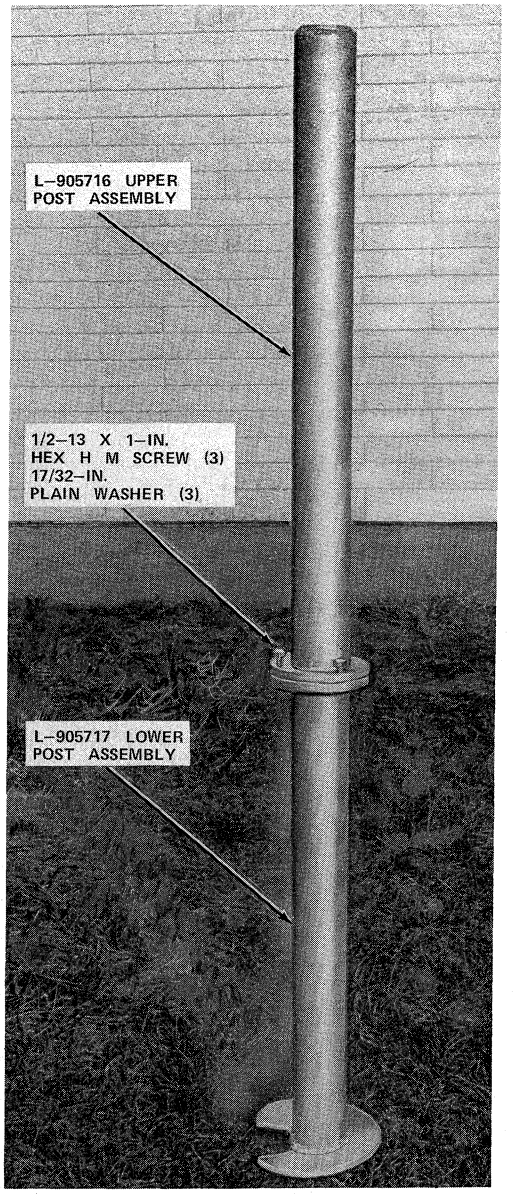

Fig. 9—KS-22433, List 1 Traffic Guard Post

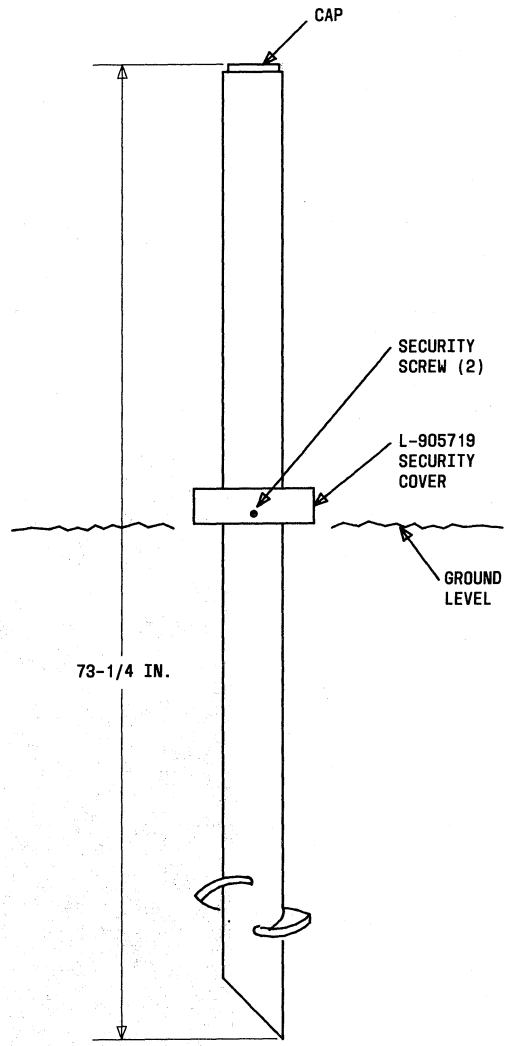

Fig. 10—Installation of Traffic Guard Post