

INSTALLATION OF WIRE AND CABLE FOR AUTOTRAILERS

1.00 INTRODUCTION

This section covers general information and procedures pertaining to the placing of wire and cable for autotrailers.

2.00 GENERAL

2.01 Placing wire, cable, and protectors for autotrailers should be on the same basis as installations for permanent buildings with the exceptions noted herein. Makeshift pole lines, insufficient clearances, etc, definitely should be avoided.

2.02 Prior to proceeding with installation, all necessary arrangements with the customer and autotrailer park manager should be made. These arrangements may include facilities such as private poles, opening and closing trenches for buried underground wire, and permission to attach wire to the autotrailers. Where such arrangements have not been made or are unsatisfactory, refer the matter to the supervisor.

2.03 Refer to the G series of Bell System Practices governing information on the installation of drop or block wire.

CAUTION: *Defects in electrical equipment or wiring in an autotrailer may energize the body and present an electrical hazard to persons in or near the autotrailer. If a hazardous condition is found to exist, installer shall proceed no further until the condition has been corrected and his supervisor informed of the condition. Installer should inform autotrailer occupant of any hazardous condition found.*

3.00 TESTING AUTOTRAILER

3.01 Before installer makes bodily contact with any metal portion of autotrailer, the following tests should be made:

1. Test metallic autotrailer body for possibility of being energized.
2. Test chassis of autotrailer body for possibility of being energized.

3.02 Installer should obtain the best available ground (water pipe, ground rod, etc) before making test.

3.03 For testing purposes, use an ac-dc voltmeter or electric service tester (neon lamp tester such as the Testolite). When using these testing devices, point of contact on autotrailer should be bare metal, and it may be necessary to cut through paint in an inconspicuous location to test.

- When using ac-dc voltmeter, connect one side of meter to ground. Hold the other test cord by the insulated portion of test pick, and touch autotrailer body and chassis, respectively. The meter should indicate **voltage** if autotrailer is energized.
- When using electric service tester, connect one electrode of tester to ground by test cord equipped with alligator clips. Hold the other electrode by the insulated portion, and touch autotrailer body and chassis, respectively. The lamp should **glow** if trailer is energized.

3.04 Orders for Testolite should be worded:

TESTER, SERVICE, ELECTRIC,
TESTOLITE T-O-L.

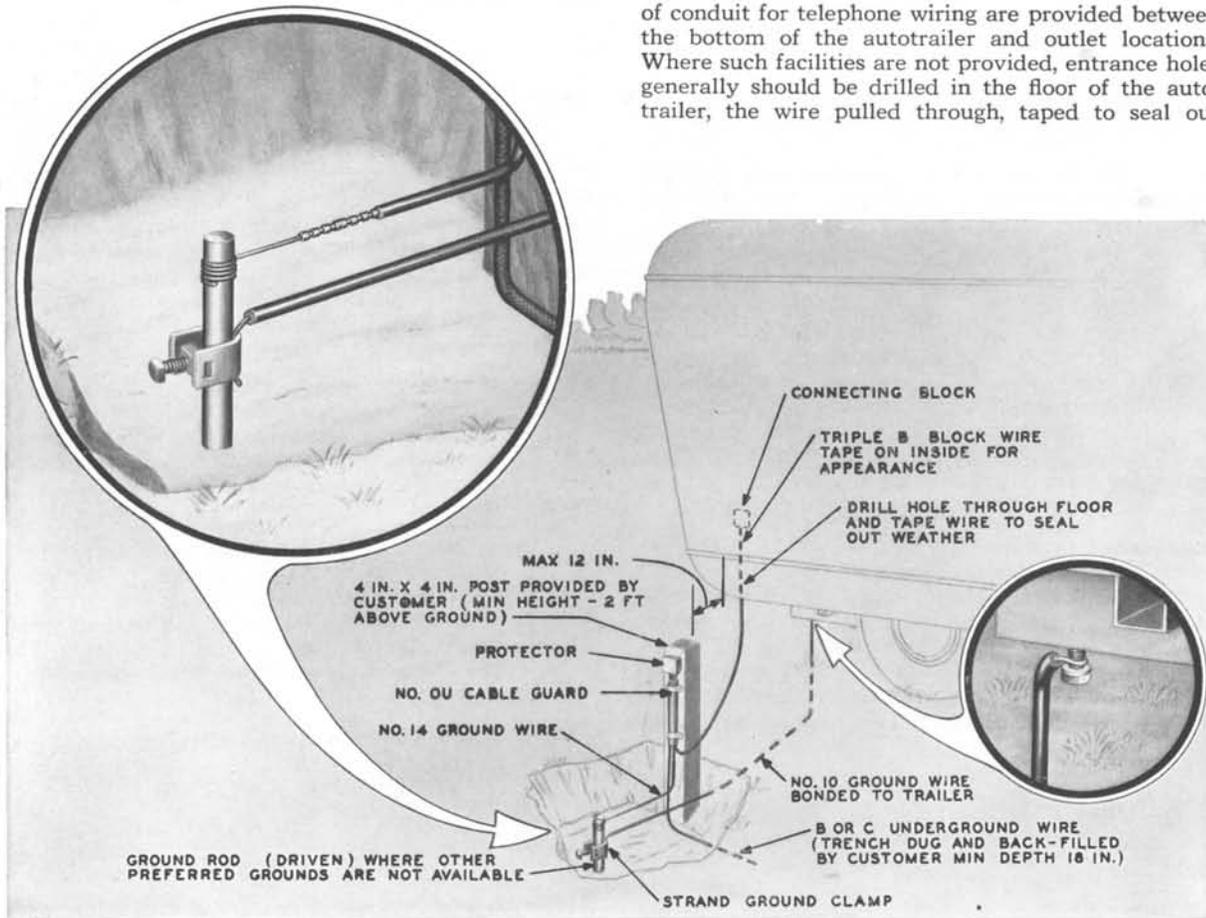
4.00 INSTALLATION

4.01 Autotrailer installations generally vary depending on the type of facilities provided by the customer. Typical wiring arrangements are shown in Figs. 1 and 2.

4.02 The protector should be located as near as possible to the autotrailer on a private post or mounted on the outside surface of autotrailer. When mounting protector on outside surface of autotrailer, use 79-type or other suitable backboard. This backboard may also be used for the drop or block wire attachment.

GROUNDING

4.03 Refer to protector and grounding practices for proper grounding medium and wiring of protector.



of conduit for telephone wiring are provided between the bottom of the autotrailer and outlet locations. Where such facilities are not provided, entrance holes generally should be drilled in the floor of the autotrailer, the wire pulled through, taped to seal out

FIG. 1—BURIED WIRE DISTRIBUTION

BONDING AUTOTRAILER

4.04 The protector ground should be bonded to the autotrailer body or chassis by No. 10 ground wire. The ground wire bonding the autotrailer should be installed to give the best possible mechanical protection, such as that shown in Figs. 1 and 2.

WIRING

4.05 The inside wiring and cabling of autotrailers should be on the same basis as that for permanent structures. In some autotrailers, short lengths

weather, and terminated on a connecting block on the inside wall of the autotrailer. On autotrailers that move often and require telephone service, it may be desirable to place permanent wiring inside of autotrailer to a protector mounted on the outside. For drop or block wiring of autotrailers, refer to the G series of Bell System Practices governing general wiring information other than that specified in this practice.

4.06 Use wood guard or conduit from post to autotrailer to protect drop or block wire from damage when the post cannot be placed 12 inches or less from the autotrailer.

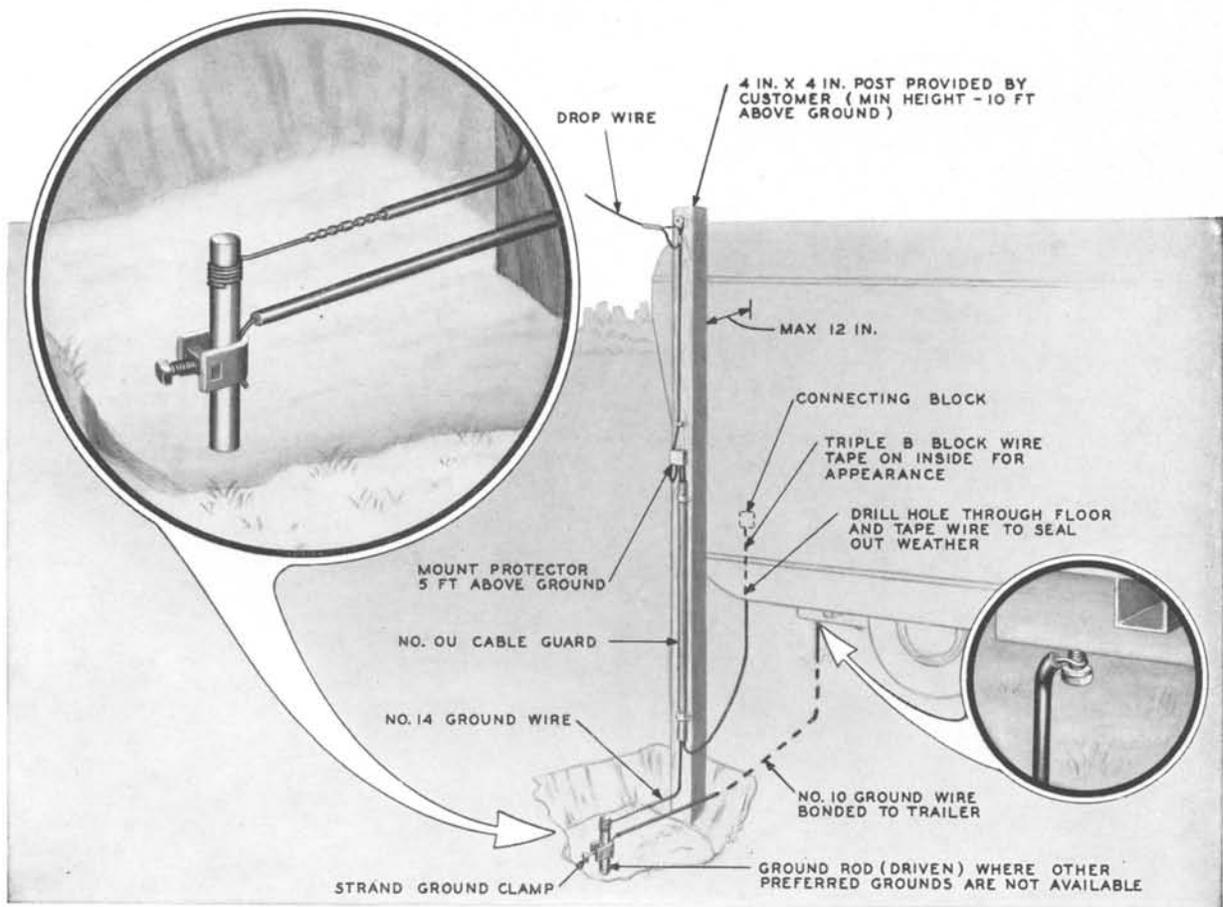


FIG. 2—DROP WIRE DISTRIBUTION