

POLE DERRICKS - GENERAL
TEL-E-LECT POWER STOWED

CONTENTS

PAGE

1. GENERAL.....	1
2. SAFETY PRECAUTIONS.....	1
3. DESCRIPTION.....	1
4. ERECTING.....	2
5. LOWERING.....	3

1. GENERAL

1.01 This section covers the erecting, lowering and use of the middle type or T type Derrick equipped with Tel-E-Lect storage conversion parts for power stowing.

1.02 The Derrick is a modification of the standard type Derrick, covered in other sections of the practices and is available in sizes corresponding to the Type 35, 40 and 45 Derricks.

2. SAFETY PRECAUTIONS

2.01 One man shall be assigned to check the derrick to insure that it is properly erected or lowered.

2.02 The precautions and general instructions outlined in the sections on Pole Derricks which apply to the derrick and work operation must be observed.

3. DESCRIPTION

3.01 The addition of the Tel-E-Lect Storage Conversion Kit to a standard derrick permits transporting the assembled derrick over the top of the truck. The derrick is erected and returned to the carrying position entirely by power.

3.02 The storage conversion unit is applicable to Middle or T Type Derricks and to front or rear mountings.

- 3.03 The capacities of the derricks, the uses, loads, and stresses as given in other Bell System Practices remain unchanged.
- 3.04 The Tel-E-Lect Storage Conversion Kit adds to the derrick mounting the following parts which are essential in erecting and lowering the derrick:
- (a) The mounting tower is vertical steel at each side of the truck to support the spindle during the erecting and carrying of the derrick.
 - (b) The swinging links are attached to the mounting towers and raise the lower end of the derrick legs overhead to the carrying position.
 - (c) Locking pins are used to secure the swinging links in the working position to the mounting towers.
 - (d) A rope spool is added to the right derrick leg to dead end the winch line in the erecting and storing operation.
 - (e) A removable pivot bar (pipe) is mounted just below and to the outside of the spindle bar to facilitate tipping the derrick beyond dead center in the erection operation. The bar also prevents the loaded derrick from swinging back over the truck.

4. ERECTING

- 4.01 The derrick is raised from the stowed position to the working position as follows:
- (a) The spindle bar should be in the upper position. It should be equipped with a sheave and guard and the special sheave which is furnished in the conversion unit for use with the fall line.
 - (b) The removable pivot bar must be in place in its brackets below the spindle bar.
 - (c) Pass the fall line over the pivot bar and under the sheave on the spindle bar. Then pass the fall line around the sheave at the derrick head and back to the rope spool on the leg of the derrick.
 - (d) The boom line used with the double drum winch should be slack as the derrick is raised to the vertical position.

(e) Take up on the fall line to raise the derrick. Just before the derrick reaches the vertical position the fulcrum point changes from the spindle bar to the pivot bar. When the derrick reaches the vertical position the pivot bar causes the head of the derrick to move away from the truck.

(f) When the derrick passes vertical, hold the derrick with the boom line and stop taking up on the fall line.

(g) Install the two locking pins to secure the lower end of the swinging links to the mounting tower.

(h) Lower derrick to desired working position.

(i) Hold derrick with boom line and release fall line from rope spool.

4.02 The pivot bar should remain in place during work operations to restrict vertical movement of derrick and prevent overload of the locking pins.

5. LOWERING

5.01 The derrick is lowered from the working position to the stowed position over the top of the truck by the following operations:

(a) Remove the pivot bar when ready to lower the derrick.

(b) Remove the locking pins from both swinging links.

(c) Lower the derrick by approximately reversing the erection procedure.

(d) After the derrick has been lowered to the carrying position secure derrick and digger, if attached, for traveling.

(e) Attach boom line to frame to take up slack and keep line in clear.

(f) Replace the pivot bar in its brackets below the spindle bar.