

Signal Telegraph Train

U. S. ARMY.

EACH TRAIN CONSISTS OF:

- 5 miles vulcanized Rubber insulated Wire.
- 150 Lances 15 feet long.
- 50 " 18 " long (6 and 12 feet) and

TWO WAGONS EACH CONTAINING:

- 1 Beardslee's Patent Magneto-electric Field-Telegraph Machine (Portfolio inside)
- 5 Reels with 4 small and 1 Centre reel stand.
- 25 Notices and Snaps.
- 4 Bearers for carrying reels with 3 straps.
- 2 galvanized Crowbars with binding screws for ground connections.
- 1 iron Crowbar.
- 1 grease pot and 1 pail.
- 2 Lanterns.
- 2 poles with hook and fork 18 feet long.
- 1 Ax.

TOOL BOX CONTAINING:

- 3 Spikes for ground connections in trees.
- 100 small iron Spikes to hang wire on trees etc.
- 2 lbs. No. 16 Copper Wire.
- 3/4 inch 3/4 rubber sleeve to run the wire through the hand.
- One Set Climbing irons.

FOR MAKING CONNECTIONS, JOINTS and REPAIRS:

- 10 insulated binding screws.
- 10 feet rubber for joints.
- 1 flask rubber Cement.
- 1 lb. Gutta Percha in Sheet.
- 12 Sheets Sandpaper.
- 1 Spool No. 30 } Copper wire for making joints,
- 1 " " 23 }
- 1 Ball Twine.
- 1 Pair cutting plyers.
- 1 Screw Wrench (large).
- 1 " " (small).
- 1 Screw Driver.
- 1 File.
- 1 Machinist Hammer.
- 1 Hatchet.
- 1 Pruning Knife.
- 1 Augur.
- 1 Saw.
- 1 Oiler.

FOR SOLDERING:

- 1 Spirit Lamp with Cap and Shield for melting Solder.
- 1 Bottle soldering acid.
- 1 Soldering iron, 2 bars Solder.

DUPLICATE ARTICLES:

- 1 small gear.
- 1 lynch pin and washer.
- 5 iron binding screws.
- 10 iron washers galvanized.
- 1 Extra handle for each Machine
- 1 large gear.
- 2 iron rings for reel stands.
- 1 handle for reels.
- 1 Extra pile of 10 magnets, ground and filed, for each train

Directions for Oiling the Machine.

- 1) None but the best quality of Oil should be used.
- 2) The Needle-shaft and Vibrating-shaft will not require to be oiled for a period of six months after the Machine is put into use, and not oftener than that afterwards.
- 3) The journals of the larger Cogwheel, the two journals of the Magnet Shaft, and the Stud for the intermediate Shaft will only want oil when the movements of the Machine become hard, or the parts indicate grinding. The oil-holes for each will be readily found by examining the parts.