OPERATION OF
WIRE TAKEDOWN REELS

1. GENERAL

1.01 This temporary Section has been issued on the basis of preliminary data, prepared by the American Tel. and Tel. Co., on the use of Wire Takedown Power Reels.

1.02 The five-wire takedown reel is intended for removing and coiling as many as five wires simultaneously. The reel consists of a steel drum, five removable reel flanges, and a tubular shaft with a bayonet end to engage the end of the standard winch shaft on construction trucks.

1.03 The ten-wire machine consists of two five-wire reels mounted on opposite ends of a special shaft driven from the truck winch power take-off. Power to the reels is controlled independently by the operation of a clutch lever for each reel. The reels are similar to the five-wire reel in construction and use except that the drums of the ten-wire machine are permanently attached to the drive shaft.

2. METHOD OF OPERATION OF THE FIVE-WIRE REEL

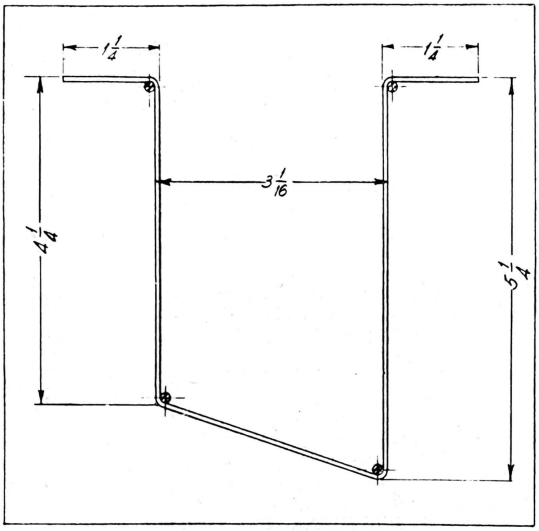
2.01 Release the clamps which hold the five flanges on the drum by pulling the hand levers out as far as they will go and slide off all the reel flanges.

2.02 Mount the drum on the end of the winch shaft, attaching it in the same way as a CR collapsible power reel is attached.

2.03 Replace the flanges and clamp them in place by pushing the levers back into the drum.

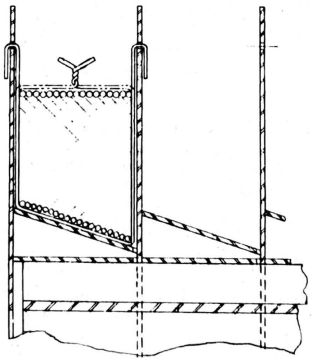
2.04 Bolt the guide bar to the guide bar support, if a support is being used, or attach the bar to the truck bumper with three-bolt clamps, so that the centers of all grommets are in line with the centers of their respective reel sections. If the bumper is too deep to permit the use of guy clamps, it will be necessary to have a set of clamping plates made locally.

2.05 Place two previously prepared wires, for tying the coils, in each reel section diametrically opposite each other, using the holes provided in the reel flanges as illustrated.



OUTLINE OF JIG MADE OF BLOCK OF WOOD AND STEEL PEGS FOR BENDING WIRES FOR TIEING COILS. USE ANNEALED COPPER WIRE.

(APPROX. LENGTH 15¼")



TIE WIRE IN USE ON REEL

2.06 Set the truck so that the wires will run to the reel in as straight a line as practicable. Thread each wire through a grommet in the guide bar, pass it under its respective reel section, stick its end in the slot at the edge of the tapered section of the reel flange in order to anchor it and proceed to wind up the wire.

2.07 In taking down wire by pulling it over crossarms, speeds exceeding about 150 feet per minute are apt to cause the free ends of the wires to become entangled and cause trouble. Higher speeds, however, may be used without difficulty when pulling the wire along the ground.

2.08 When sufficient wire has been wound on the reels, tie the coils with the tie wires previously inserted. Remove each flange with its coil and drop lightly on the ground, coil side down, to release the coil.

3. METHOD OF OPERATION OF THE TEN-WIRE UNIT

3.01 The instructions given in Part 2 for the operation of the five-wire reel should be applied when operating the ten-wire unit, with the following exceptions:

(a) Paragraphs 2.02 and 2.04 are not applicable as the reels and the guide bar of this unit are permanently mounted.

(b) The instructions in Paragraph 2.06 shall be modified for the ten-wire machine to permit the wires to be threaded over each reel section instead of under.