

U.S. ARMY SIGNAL CORPS  
REPERFORATOR TRANSMITTERS  
TG-26-A AND TG-27-A

GENERAL DESCRIPTION

The Signal Corps TG-26-A and TG-27-A Reperforator Transmitter Distributor Sets (Teletype Model 14 Portable Sending-Receiving Typing Reperforator Transmitter Sets) each consists of a sending-receiving typing reperforator, transmitter distributor, connection box, and chest. The TG-26-A is equipped with communication characters and the TG-27-A with weather symbol characters.

The typing reperforator may be used to transmit directly to the line and monitor the message by printing on and perforating a tape. When tape transmission only is desired the typing reperforator may be operated locally and the tape thus perforated used for operating the transmitter distributor. The typing reperforator may also be connected to the circuit so as to receive signals from a distant point to prepare tape for subsequent transmission.

The typing reperforator, transmitter distributor and connection box are secured to the base of the chest. The typing reperforator and transmitter distributor are provided with resilient mounts and the covers of these two units latch to their respective bases. The chest cover, when removed and placed on its side, provides a support for the chest base with operating equipment. Hinged panels within the cover may be swung into position so as to form a storage compartment for perforated tape that may accumulate between the typing reperforator and transmitter distributor.

The connection box is equipped with two power cords with plugs (one for motor power and the other for local D.C.), two receiving line cords with plugs, and two sending line cords with plugs. Each signal line cord is connected to a pair of jacks wired in series. The typing reperforator is equipped with two line cords with plugs and the transmitter distributor with one. These plugs may be plugged into the connection box jacks.

A switch located on the right hand end of the connection box connects resistors within the box so as to permit motor operation on the following power supplies:

		<u>Position of Switch</u>
115 Volts A.C.	25 or 40 Cycles	Up
115 Volts D.C.		Center
115 Volts A.C.	50 or 60 Cycles	Down

The D.C. power cord provides battery for two test circuits, one having three jacks in series and the other two. These test jacks in conjunction with the signal line jacks permit various operating combinations. The following are some of the most common operating combinations of TG-26 and associated TG-7 sets or TG-27 and TG-37 sets which may be connected in the circuit:

- a. Manually send from the typing reperforator into a local loop to print and perforate a tape. Perform the same operation and simultaneously print a page copy.
- b. Send into a local loop from the transmitter distributor, with tape previously perforated, to print a page copy.
- c. Send from the typing reperforator into a signal line and at the same time print and perforate a tape. Perform the same operation and print a page copy simultaneously.
- d. Receive line signals on both the TG-26 and TG-7 or TG-27 and TG-37 sets to print and perforate a tape and simultaneously print a page copy.
- e. Use the typing reperforator and transmitter distributor separately and simultaneously as follows:
  - (1) Operate the typing reperforator in a local loop or connect it to a line to receive printer signals. In either case, print and perforate a tape.
  - (2) Use any standard perforated tape (other than the one being printed and perforated by the typing reperforator) to operate the transmitter distributor connected to a local loop to print a page copy, or connected to a line to transmit printer signals.

The typing reperforator and the transmitter distributor are equipped with individual motor power switches.

TO PREPARE THE REPERFORATOR TRANSMITTER SET  
FOR OPERATION

1. Remove the cover from the chest and rest it on its rear surface, with the open side to the front.
2. Unlatch the two hinged tape compartment panels within the chest and position them at right angles to sides to which they are hinged.
3. Place the chest base on the cover with the front side of the base above the open side of the cover.

4. Open the trap doors in the base and cover to permit the perforated tape to loop into the tape compartment.
5. Refer to the name plate on the chest base for operating instructions.

TO PREPARE THE REPERFORATOR TRANSMITTER  
SET FOR TRANSPORTATION

1. Disconnect the connection box cords from the line terminal equipment and power supplies.
2. Plug the transmitter distributor and connection box line cords into jacks on the connection box and carefully fold the cords and place them between the typing reperforator cover and the transmitter distributor.
3. Plug the typing reperforator line cords into jacks on the connection box and carefully fold the cords and place them between the typing reperforator cover and the connection box.
4. Clamp the two ends of the power cords in the clamp provided in the rear of the transmitter distributor and place the cords between the typing reperforator and transmitter distributor.
5. Close the trap doors in the base and cover.
6. Latch the compartment panels against the walls to which they are hinged.
7. Secure the cover to the chest base.