REPEATED DIALING TOLL TRANSMISSION SELECTORS ASSOCIATED JACK METHOD OF COIN CONTROL COIN CONTROL TESTS USING TOLL TRAIN AND COIN BOX TRUNK TEST SET ES-241636 STEP-BY-STEP SYSTEMS

1. GENERAL:

1.1 This section describes a method of testing the coin control features of toll transmission selectors when used in connection with the associated jack method, by means of the toll train and coin box trunk test set (wagon type). Cords and jacks are provided for connecting the test set to the various switches and test circuits.

1.2 Section 226-310-505 should be used when making an operation test of these toll transmission selectors.

1.3 Earth potential keys are provided in order to simulate the earth potential conditions which might be encountered in service. A 12 volt positive potential can be inserted into the coin box ground lead by the operation of the EP-12 key. With keys EP-12 and EP-22 both operated, this potential is increased to 22 volts. The polarity of the earth potential is reversed by operating the EP-REV key. The correct voltage of the test set earth potential battery is essential in the performance of this routine.

1.4 Where this routine is applied to four-digit toll train equipment, the transmission selectors should be made busy as the test proceeds, so that at the completion of the routine, the coin control functions of all transmission selectors arranged for coin service will have been tested.

1.5 This routine should be performed during the hours of light traffic, since it may involve the busying of toll transmission selectors in groups of ten.

1.6 Any selector or trunk on which a failure is encountered when making this routine should be made busy until the trouble is cleared.

2. APPARATUS:

2.1 Toll Train and Coin Box Trunk Test Set (ES-241636).

2.2 Four No. 728 Cords equipped with No. 110 Plugs.

2.3 No. 813 Cord equipped with a No. 240-A Plug and a No. 110 Plug.

2.4 Operator's Telephone Set.

3. PREPARATION:

3.1 Locate the test set near the toll transmission selector bay on which the selectors to be tested are mounted.

3.2 Before connecting the testing equipment to an incoming selector, the corresponding trunk should be made busy at the originating office until the test is completed.

3.3 With three No. 728 cords, connect test set jacks Nos. 3, 4 and 5 to the correspondingly numbered jacks on the transmission selector bay.

3.4 Where this routine is applied to a four-digit toll train, connect jack No. 2 of the test set to jack No. 2 of the test line, by means of one No. 728 cord.

3.5 Connect the operator's telephone set to the TEL jacks of the test set.

4. METHOD:

4.1 For four-digit toll train equipment, connect the test jack of an incoming selector to the test line jack No. 10, by means of one No. 813 cord.

4.2 For three-digit toll train equipment, connect jack No. 2 of the test set to the test jack of the transmission selector, by means of one No. 813 cord.

4.3 At the completion of the connections described in paragraph 4.1 or 4.2, observe that lamps No. 2 and No. 4 light, indicating a closure of the loop and sleeve circuits, respectively.

4.4 Operate the CBX-CLD and LIST keys in order to connect the No. 50 coin collector to the test line (99).

Coin Return Test:

4.5 Operate the EP-12 and EP-REV keys.

4.6 Dial the test number to which the test set is connected (use the test set dial). Observe that lamps No. 1 and No. 3 are lighted when dialing is completed, indicating that the connector has seized the test line terminals.

4.7 Operate the TOLL-CW key, in order to connect the talking circuit of the test set with the toll switchboard.

4.8 Deposit a coin in the coin collector and request the toll operator or assistant at the toll switchboard to insert the coin control cord into the coin control jack associated with the selector under test.

4.9 Request the toll operator or assistant to operate the coin return key. Observe that the coin is returned properly.

4.10 Restore the EP-REV key.

Coin Collect Test:

4.11 Deposit the coin again in the coin collector and request the toll operator or assistant at the toll switchboard to operate the coin collect key. Observe that the coin is collected properly.

Note: If local earth potential conditions exceed 12 volts, operate the EP-22 key in addition to the EP-12 key.

4.12 Operate and release the RLS key and observe that lamps No. 1 and No. 3 are extinguished.

4.13 Restore all keys.

5. **REPORTS:**

5.1 The required record of this routine should be entered on the proper form.