

## METHOD OF TAKING EQUIPMENT AND CIRCUITS OUT OF SERVICE

### 740E PBX

#### 1. GENERAL

**1.01** This section describes the methods to be followed in taking equipment and circuits out of service at the 740E PBX, when it is necessary to do so on account of trouble or to remove certain equipment when a station is disconnected.

**1.02** The information in this section was previously covered in Section B352.021, Issue 3.

**1.03** When PBX trunks are to be made busy at the central office end, call the test center and ask them to arrange to have the trunks made busy.

**1.04** Local instructions should be followed for recording and reporting equipment taken out of service.

#### 2. APPARATUS

**2.01** No. 258 type (make-busy) plug, as required.

**2.02** No. 375A (make-busy plug) tool or No. 477A (make-busy plug) tool, as required.

#### 3. METHOD

##### Stations

**3.01** When a station is disconnected and local instructions call for making it busy, wire the station circuit in the following manner: Unsolder and remove the jumper at the main distributing terminal. Place strap from "CS" to "G" terminals and remove strap from "CS" to "S" terminals on line terminal block.

##### Line Finders

**3.02** To take a line finder out of service, insert a No. 258 type plug into the test and make-busy jack associated with the line finder.

*Note:* If the line finder is off normal the insertion of the make-busy plug will not interfere with the release of the line finder.

**3.03** If the switch is removed from the frame, note that jack springs No. 14 and 16 make contact when the switch has been removed.

##### Selector-Connectors

**3.04** To take a selector-connector out of service, insert a No. 258 type plug into the test and make-busy jack of the associated line finder.

*Note:* If the line finder is off normal, the insertion of the make-busy plug will not interfere with the release of the line finder.

**3.05** If the switch is removed from the frame, note that jack springs No. 9 and 11 make contact when the switch is removed.

##### First Selectors

**3.06** To take a first selector out of service, insert a No. 258 type plug into the test and make-busy jack of the associated line finder.

*Note:* If the line finder is off normal, the insertion of the make-busy plug will not interfere with the release of the line finder.

##### Selectors (Other than First or Incoming)

**3.07** To take an intermediate selector out of service, insert a No. 375A or 477A tool between the No. 3 and 4 springs of the selector test jack.

**Incoming Selectors**

**3.08** To take an incoming selector out of service, have the associated trunk made busy at the originating end.

*Note:* If the incoming selector is associated with a two-way trunk having a selector multiple appearance, it will be necessary to make the trunk busy at the selector multiple also.

**Connectors**

**3.09** To take a connector out of service, insert a No. 375A or 477A tool between the No. 3 and 4 springs of the connector test jacks.

**3.10** *Dial Central Office Trunk:* When a central office trunk working from a level of a selector or selector-connector is to be removed from service, block operated the S1 relay of the trunk circuit.

**3.11** *Attendant Central Office Trunk:* Call the test center and have the trunk made busy or removed from service at the central office end. Have the PBX attendant leave a cord in the trunk jack.

**3.12** *Attendant Trunk:* When a trunk working from a selector level to the attendant is to be removed from service, have the PBX attendant leave a cord in the trunk jack.

**Tie Trunks**

**3.13** Call the attendant at the distant PBX and have the tie trunk made busy at that end by leaving a cord in the trunk jack. Also make the tie trunk busy by blocking operated the relay indicated in Table A except in the case of two-way manual ringdown tie trunks. These latter tie trunks should be made busy at the attendant's position by having a cord left in the tie trunk jack.

*Note 1:* When the distant PBX is of the 710 or 711 type, or the 702 type having tie trunks which terminate on incoming selectors only, it will be necessary to arrange to have someone at that PBX to block operated the B relay (710 or 711 PBX) or M2 relay (702 PBX).

*Note 2:* When the distant PBX is of the 740A or 740B type, advise the attendant of that PBX to make the tie trunk busy in the following manner: Request the attendant to operate the key of the tie trunk to its TLK position, operate the EXT-DIAL key and dial an unassigned connector terminal. Then have the attendant restore these keys to normal.

**TABLE A**

Tie Trunk	Relay to be Blocked
Two-Way Manual and Dial Select	S1
Outgoing Dial Selected — Incoming Dial Transmitting	B
Outgoing Manual and Dial Selected — Incoming Dial Repeating	B
Outgoing Dial Repeating — Incoming Dial Transmitting	B
Outgoing Manual and Dial Select — Incoming Dial Transmitting	B

**3.14** If the tie trunk units are two-way manual and dial repeating, insert a No. 258 type plug into the C jack of the trunk unit.

**3.15** When tie trunks are to be restored, remove any blocking tools from the relays and advise the attendant at each PBX to remove the cords used for busying the tie trunk.

*Note 1:* In the case of the 702, 710 or 711 type PBX as covered by Note 1 under 3.13 it will be necessary to have someone at those PBX remove the block from the relay in the tie trunk circuit.

*Note 2:* In the case of the 740A or 740B type PBX, advise the attendant at the PBX to operate the tie trunk key to its TLK position and then operate the RLS key. This will release the switches and restore the tie trunk to normal after which the keys are restored to normal.