

SWITCHING SYSTEM NO. 400
KEY TELEPHONE LINE AND ADD-ON CIRCUIT

OPERATION TESTS

1.00 GENERAL

1.01 This section covers the following tests:

A. Central Office Line Test, Using Key Telephone Unit Not Associated with Add-On Circuit: Checks that the key telephone equipment is selected by the key telephone set and holds properly.

B. Station Line Test, Using Key Telephone Unit Not Associated with Add-On Circuit: Checks that the key telephone equipment is selected by the key telephone set and holds properly.

C. Add-On Circuit Test, Outgoing Call by Station: Checks the following features: (a) seizure of attendant station

line, (b) holding of station line, (c) seizure of central office line, and (d) transfer of station line to central office line.

D. Add-On Circuit Tests, Incoming Call to Station: Checks the following features: (a) seizure of attendant central office line, (b) holding of central office line, (c) seizure of station line, (d) transfer of central office line to station line, and (e) disconnect control by called station.

1.02 Tests C and D require action and verification at an attendant station (a key telephone set where a central office line, associated station line, hold key, and transfer key appear) and a nearby station.

1.04 Test D requires action and verifications at a location where an incoming central office call can be placed.

2.00 METHOD

STEP	ACTION	VERIFICATION
	<u>A. Central Office Line Test, Using Key Telephone Unit Not Associated with Add-On Circuit</u>	
1	At key telephone set: Depress CO line pickup key.	
2	Remove handset from switchhook.	CO dial tone heard. CO line lamp lights steadily.
3	If testing CO line in nonhunting group, dial number of CO line under test. OR If testing CO line in hunting group, dial CO test line.	Busy tone heard. Test line seized.
4	Depress and release HOLD key.	CO line lamp starts winking. Handset goes dead.
5	Hang up handset.	
6	Depress CO line pickup key.	

STEP	ACTION	VERIFICATION
7	Remove handset from switchhook.	Busy tone or test line heard. CO line lamp lights steadily.
8	Hang up handset.	CO line lamp extinguished.

B. Station Line Test, Using Key Telephone Unit Not
Associated with Add-On Circuit

1	At key telephone set: Depress station line pickup key.	
2	Remove handset from switchhook.	Dial tone heard. Station lamp lights steadily.
3	Dial number of station line under test.	Busy tone heard.
4	Depress and release HOLD key.	Station lamp starts winking. Handset goes dead.
5	Hang up handset.	
6	Depress station line pickup key.	
7	Remove handset from switchhook.	Busy tone heard.
8	Hang up handset.	Station lamp extinguished.

C. Add-On Circuit Test, Outgoing Call by Station

1	At nearby station: Place call to attendant station.	At attendant station: Audible signal heard. Station lamp flashes.
2	At attendant station: Depress station line pickup key, re- move handset from switchhook.	At attendant station: Station lamp lights steadily. Audible signal silenced. Talking connection established.
3	At attendant station: Depress and release HOLD key.	Station lamp starts winking.
4	At attendant station: Depress associated CO line pickup key.	CO dial tone heard. CO line lamp lights steadily.
5	If CO line is in nonhunting group, dial number of CO line under test. OR If CO line is in hunting group, dial CO test line.	Busy tone heard. Test line seized.
6	Depress TRANSFER key.	Trunk lamp remains lighted.
7	Release TRANSFER key.	Station lamp lights steadily. At attendant station and nearby station: Busy tone or test line heard.

STEP	ACTION	VERIFICATION
8	At attendant station: Hang up handset.	CO line, station lamps remain lighted. At nearby station: Busy tone or test line heard.
9	At nearby station: Hang up handset.	At attendant station: CO line, station line lamps extinguished.

D. Add-On Circuit Test, Incoming Call to Station

1	At attendant station: Obtain incoming call over CO line.	When incoming call is received, audible signal heard. CO line lamp flashes.
2	Depress CO line pickup key, remove handset from switchhook.	CO line lamp lights steadily. Talking connection established.
3	Request CO call to remain connected.	
4	Depress and release HOLD key.	CO line lamp starts winking.
5	Depress station line pickup key.	Dial tone heard. Station lamp lights steadily.
6	Dial number of nearby station.	At nearby station: Audible signal heard.
7	At attendant station: When audible tone is heard, depress and release TRANSFER key, hang up handset.	At attendant station: Station line lamp flashes.
8	At nearby station: Remove handset from switchhook.	Talking connection established with CO line. At attendant station: Station line lamp lights steadily. CO line lamp lights steadily.
9	At nearby station: Request central office call to disconnect after interval of 30 seconds, then hang up handset.	At attendant station: When nearby station hangs up, CO line, station lamps extinguished.