

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C65.851
Issue 1, 3-2-36
AT&T Co. Prov. Std.

NO. 629A SUBSCRIBER SET

FOR EXPLOSIVE ATMOSPHERES

(Reference Section for C55.151)

1. GENERAL

1.01 The No. 629A subscriber set is intended for use only in special cases where explosive gases may be present.

Caution: Under no circumstances install this subscriber set without having a service order or definite instructions specifically ordering its installation.

2. APPARATUS

2.01 The apparatus used in the subscriber set is listed below.

Condenser:	No. 199A Condenser.
Induction Coil:	No. 103A Induction Coil.
Leads:	P-242211 Leads for transmitter.
Receiver:	No. 558 Receiver. Includes R2AD cord.
Ringer:	No. 68LD Ringer.
Switchhook:	No. 152A Switchhook.
Transmitter Unit:	No. 323, 329 or 337 Transmitter Unit. Use in accordance with the approved transmission zoning practices.

3. INSTALLATION

3.01 If possible the set should be installed at a time when the location is free of explosive gases. Provide as much ventilation as is permissible, remembering that prevailing restrictions posted or otherwise made known at the subscriber's premises must be carefully obeyed.

Caution: In no case shall testing equipment or other apparatus capable of producing electrical sparks be used in the explosive atmosphere. All apparatus having electrical contacts is prohibited.

3.02 Complete all connections to sets and associated apparatus and lock the set before connecting the station wiring to the protector or cable terminal.

3.03 Station wiring in explosive atmosphere must be rubber insulated and weatherproof and must be protected from mechanical injury by conduit or other suitable means.

3.04 Protector, cable terminal, loud ringing bell, connecting blocks, keys or other apparatus having contacts must be located outside of the explosive atmosphere and the wiring between the terminal point and the set shall be as short as possible. Connections to the loud ringing bell, if required, shall be made outside of the explosive atmosphere, preferably at protector or terminal.

4. CONNECTIONS

4.01 Connections for the set are shown in Fig. 1.

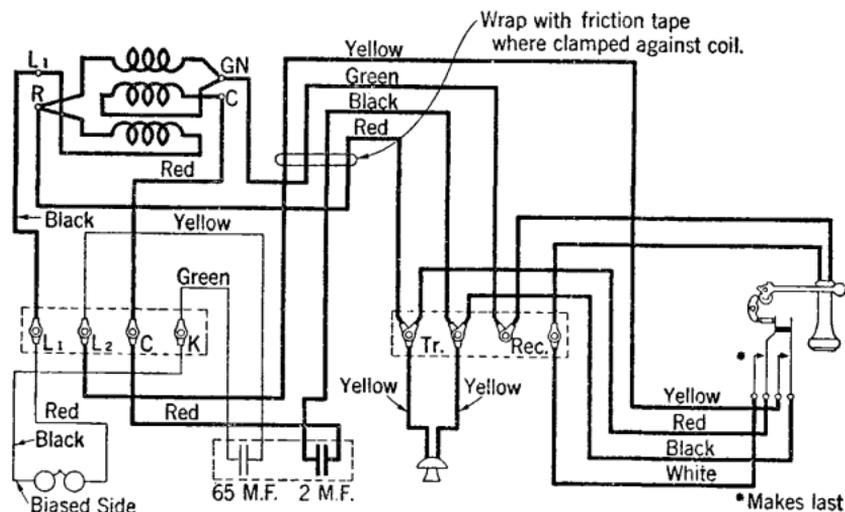


Fig. 1.

5. MAINTENANCE

5.01 Do not unlock set for any reason nor make any repairs to the station wiring without first disconnecting tip and ring conductors of the station wiring at the protector or cable terminal and connecting them momentarily together to discharge the condensers in the subscriber set (and loud ringing bell if provided). Ground these tip and ring conductors while

working on the set if convenient, otherwise make sure that they will not come in contact with other wires, terminals, etc. (tape bare ends of wire if in doubt).

5.02 Make all tests involving station wiring and subscriber sets except ringing, talking and bell tapping tests from the protector or cable terminal.

5.03 At every station visit the following check of the subscriber set shall be made in addition to the regular routine inspection to see that:

- (1) The metal parts of the set particularly the switchhook assembly, ringer and condenser are not corroded and that the lead seal on the switchhook chamber is not broken.
- (2) The switchhook moves freely throughout the entire travel without binding or squeaking and that the switchhook plunger operates freely in its bearing.
- (3) The insulation on all leads in the set is not frayed, broken or otherwise damaged and that the four leads between the cover and the base of the set are taped and clamped against the induction coil to prevent injury to the leads when closing the cover.
- (4) All leads entering the terminal block do so only through the holes provided in long sides of the wooden covers.
- (5) The receiver cord is securely clamped at both ends.
- (6) The ringer leads are tied to the bracket behind the ringer posts and that the sealing compound at the coil end of the leads is not loose.

5.04 Tests for bell tapping shall be made with set locked and station wiring connected to the line by operating switchhook. Where required biasing spring tension shall be increased 1/16 of a turn at a time. Before unlocking the set disconnect station wiring as covered in 5.01.

5.05 **Caution:** When making tests with test deskman warn him not to apply a breakdown test while the subscriber set and station wiring are connected to the line. Disconnect station wiring as covered in 5.01 whenever a breakdown test is necessary.