## KS-19261

## LIGHT CONTROLS

#### 1. GENERAL

- 1.01 This section includes identification, installation, and maintenance information on the following:
  - (1) KS-19261, List 1 light control unit.
  - (2) KS-19261, List 2 light control unit.
  - (3) KS-19261, List 3 light control unit.
  - (4) KS-19261, List 4 light control unit.
  - (5) KS-19261, List 10 light control kit.
- 1.02 This section is reissued to:
  - Revise text to group all information on each list number together
  - Add information to install a List 4 unit in a KS-20842, List 42 or 45 wall mounting.

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

- 1.03 The KS-19261 light control units are used to control the lights in outdoor telephone booths and mountings. They can be used to control lights in multiple installations of five or less booths.
- 1.04 The light control units are designed to operate the lamp(s) when exposed to a light level of 3-foot candles; the lamp(s) will be extinguished at a light level of ten or more foot candles.



The unit should not be used to control fixtures exceeding 500 watts.

## 2. KS-19261, LIST 1 LIGHT CONTROL UNIT

- 2.01 The List 1 unit (Fig. 1) is designed for the following outdoor booths:
  - KS-14611 Airlight booth (MD) equipped with a KS-19207 light fixture
  - KS-16797 Universal booth (MD) equipped with a KS-19207 light fixture
  - KS-19425 Universal II booth equipped with a KS-19207 light fixture or light and blower unit
  - KS-19580 Airlight II booth equipped with a KS-19207 light fixture or light and blower unit.
- 2.02 Install the List 1 in a KS-14611 or KS-16797 single booth equipped with KS-19207 light fixture as follows:



Use eye protection for the following operations.

- (a) Remove power cord from receptacle.
- (b) Lower the dome as shown in Fig. 2 and remove lamp(s).
- (c) Release roof fasteners and remove roof from booth.
- (d) Remove knockout from side of light fixture (Fig. 3) and install control unit as shown.



The light cell is mounted in the right-front corner of the roof. Some booths have a plug or knockout for this purpose. If a plug or knockout does not exist, drill one 11/16-inch diameter hole in the roof as shown in Fig. 4 or 5. A Greenlee

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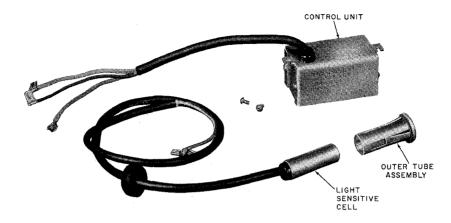


Fig. 1-KS-19261, List 1 Light Control Unit

# knockout punch should be used if available.

- (e) Insert outer tube assembly (Fig. 6) through 11/16-inch hole in roof from outside until tabs lock behind edge of hole.
- (f) Remove terminal board cover and connect control unit wiring to terminals as follows:

WIRE COLOR	CONNECT TO TERMINAL
W	9
R	4
BK	1

(g) Connect light cell wiring to terminals as follows:

WIRE COL	OR	CONN	ECT TO	TERMINAL	
w			13		
BK			9		
(h) 1	Damarra	atuan mina	fuem	hatmaan	

- (h) Remove strap wire from between terminals1 and 4 of terminal strip.
- (i) Install terminal board cover.

- (j) Place roof on booth and insert light sensitive cell fully into outer shell.
- (k) Secure roof to booth.
- (l) Install lamp(s) and fasten dome.
- (m) Connect power cord to receptacle.
- (n) Cover light cell to exclude light. Lamps should light within two minutes. If lamps do not light:
  - (1) Place a strap between terminals 1 and 4 on terminal strip.
  - (2) If lamp illuminates, remove strap and replace existing light control unit with a new light control unit.
- 2.03 Install List 1 unit in KS-19425 or KS-19580 single booth as follows:



# Use eye protection for the following operations.

- (a) Remove power cord from receptacle.
- (b) Remove the dome as shown in Fig. 7 and remove lamps.
- (c) Remove 12 screws and move roof to one side.

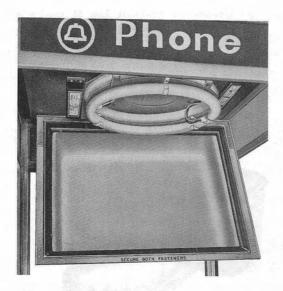


Fig. 2—Dome in Lowered Position (KS-14611 or KS-16797 Booth)

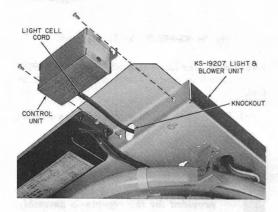
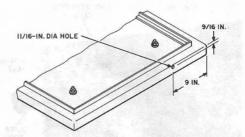


Fig. 3—Installation of List 1 Light Control Unit on Light Fixture

- (d) Remove knockout from rear of light fixture (Fig. 3) and install control unit as shown.
- (e) Remove the plug from the 11/16-inch diameter hole located in the right-front-top corner of the booth.



ig. 4—Locating Hole in Roof of KS-14611 Booth for Light Cell

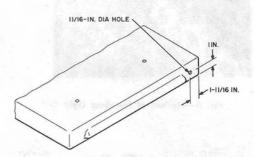


Fig. 5—Locating Hole in Roof of KS-16797 Booth for Light Cell

- (f) Perform operations outlined in 2.02 (e) through (n).
- 2.04 Install the List 1 in a KS-14611, KS-16797, KS-19425, or KS-19580 multiple installation without blowers as follows:
  - (a) Install light control in first booth as directed in 2.02.
  - (b) Install a KS-19580, List 51 receptacle assembly (Fig. 8) above the ceiling area in the first booth.



The KS-19580 booth has a bracket provided for the receptacle assembly. In other type booths, install the assembly in any convenient area near electrical receptacle.

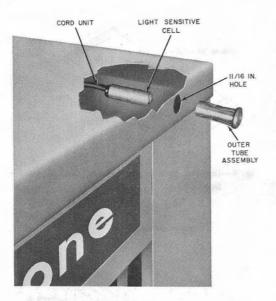
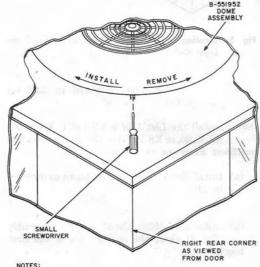


Fig. 6-Method of Installing Light Cell



- I. FOR REMOVAL, INSERT SMALL SCREWDRIVER THROUGH SLOT IN CEILING, DEPRESS DETENT SPRING, AND TURN DOME ASSEMBLY COUNTERCLOCKWISE.
- 2. FOR INSTALLATION, PLACE DOME ASSEMBLY IN CEILING AND TURN IT CLOCKWISE UNTIL DETENT SPRING ENGAGES AND LOCKS DOME.

Fig. 7-Method of Removing Dome Assembly

- (c) Connect the KS-19580, List 51 receptacle assembly to the terminal strip as shown in Fig. 9.
- (d) Connect the electrical plug of the second booth to the KS-19580, List 51 receptacle assembly of the first booth. Connect the electrical plug of the third, fourth, and fifth booth to the receptacle of the previous booth (Fig. 9).



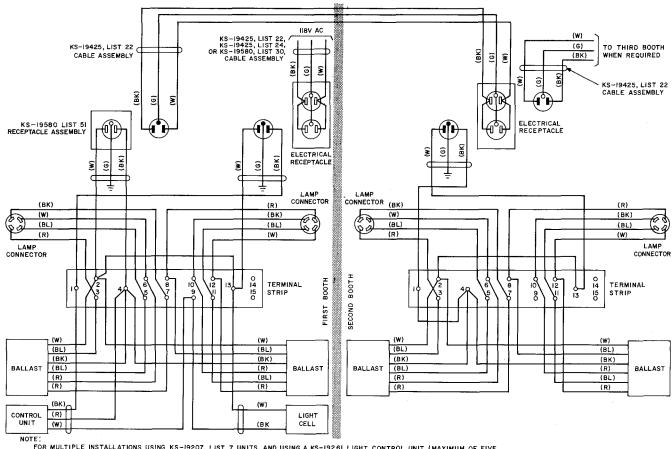
Fig. 8-KS-19580, List 51 Receptacle

- Install the List 1 in a KS-19425 or KS-19580 2.05 multiple installation with blowers as follows:
  - (a) Install light control in first booth as directed in 2.03.
  - (b) Install a KS-19580, List 51 receptacle assembly (Fig. 8) above the ceiling area in each booth.



The KS-19580 booth has a bracket provided for the receptacle assembly. In other type booths, install the assembly in any convenient area near electrical receptacle.

- (c) Connect the KS-19580, List 51 receptacle assemblies to the terminal strips as shown in Fig. 10.
- (d) Using KS-19425, List 22 cable assemblies, connect the KS-19580, List 51 receptacle assembly of the second, third, fourth, and fifth



FOR MULTIPLE INSTALLATIONS USING KS-19207, LIST 7 UNITS, AND USING A KS-1926] LIGHT CONTROL UNIT (MAXIMUM OF FIVE BOOTHS FOR EACH CONTROL UNIT), REMOVE THE STRAP WIRE FROM TERMINAL STRIP TERMINALS I AND 4 IN FIRST BOOTH. INSTALL A KS-19580, LIST 51 RECEPTACLE ASSEMBLY IN THE FIRST BOOTH. CONNECT ELECTRICAL RECEPTACLE OF SECOND BOOTH TO LIST 51 RECEPTACLE OF FIRST BOOTH USING KS-19425, LIST 22 CABLE ASSEMBLY. CONNECT ELECTRICAL RECEPTACLE OF THIRD, FOURTH, AND FIFTH BOOTHS TO ELECTRICAL RECEPTACLE OF PREVIOUS BOOTH USING KS-19425, LIST CABLE ASSEMBLY.

Fig. 9—Wiring Diagram of KS-19261 Light Control Unit Used in Multiple Installation Without Blowers

booth to the List 51 receptacle assembly of the previous booth (Fig. 10).

(e) Using KS-19425, List 22 cable assemblies, connect the booth receptacle of the second, third, fourth, and fifth booth to the booth receptacle of the previous booth (Fig. 10).

#### 3. KS-19261, LIST 2 LIGHT CONTROL UNIT

- 3.01 The List 2 unit (Fig. 11) is designed for the following outdoor booths:
  - KS-14611 Airlight booth (MD) equipped with B-185379 light fixture
  - KS-16797 Universal booth (MD) equipped with B-185379 light fixture.
- 3.02 Install List 2 unit in KS-14611 booth, equipped with B-185379 light fixture as follows:



Use eye protection for the following operations.

- (a) Remove power cord from receptacle.
- (b) Lower the dome, unplug light fixture, and remove lamps.
- (c) Remove top access plate located in right-rear inside corner, and remove light plug from receptacle.
- (d) Remove roof retaining nuts.
- (e) Remove light fixture and light fixture cord mounting plate.
- (f) Remove roof from booth.



The light cell is mounted in the right-front corner of the roof. Some booths have a plug or knockout for this purpose. If a plug or knockout does not exist, drill one 11/16-inch diameter hole in the roof as shown in Fig. 4. A Greenlee knockout punch should be used if available.

(g) Drill an 11/16-inch diameter hole down through ceiling 4-1/2 inches toward front of booth from center of cross braces (Fig. 12).

- (h) Attach light cell adapter plate to inside of ceiling so that the pair of light control unit mounting bolts are toward the front of booth (Fig. 13).
- Place light control cord up through large hole and secure light control unit to adapter plate.
- (j) Place light cell up through previously drilled hole and insert grommet.
- (k) From top of booth, place light control unit cord plug into area of power receptacle.
- Place outer tube assembly through roof hole from outside until tabs lock behind edge of hole (Fig. 6).
- (m) Place light cell into shell and put roof into position.
- (n) Bend light cord mounting plate and wedge it under ballast (Fig. 14).
- (o) Plug light cord into control unit (Fig. 13).
- (p) Replace lamps and roof retaining nuts.
- (q) Plug light control unit cord into receptacle and replace access plate.
- (r) Secure dome and plug the power cord into receptacle.
- (s) Cover light cell to exclude light. Lamps should light within two minutes. If lamps do not light:
  - (1) Remove light plug from light control unit and plug it into electrical receptacle.
  - (2) If lamp(s) illuminates, replace light control unit.
- 3.03 Install List 2 unit in KS-16797 booth equipped with a B-185379 light fixture as follows:



Use eye protection for the following operations.

(a) Remove power cord from receptacle.

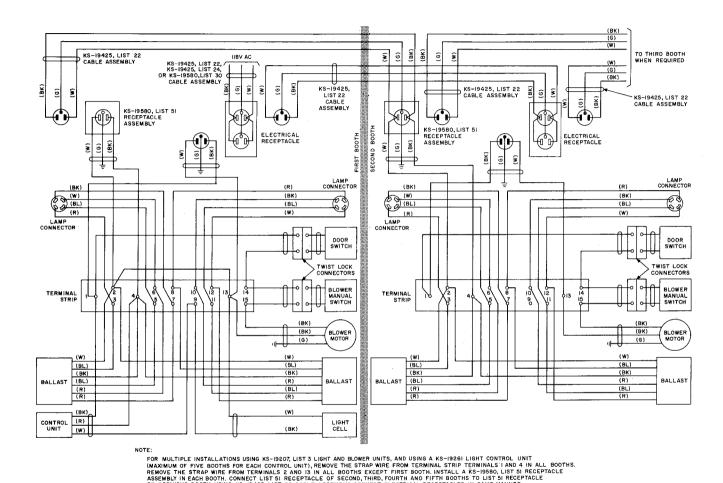


Fig. 10—Wiring Diagram of KS-19261 Light Control Unit Used in Multiple Installation with Blowers

OF PREVIOUS BOOTH USING KS-19425, LIST 22 CABLE ASSEMBLY. CONNECT ELECTRICAL RECEPTACLES IN SAME MANNER.

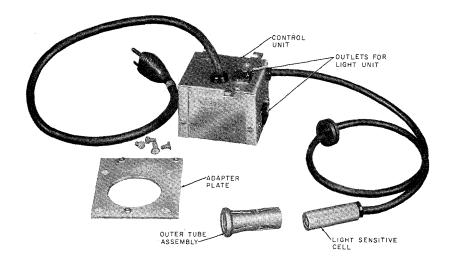


Fig. 11-KS-19261, List 2 Light Control Unit

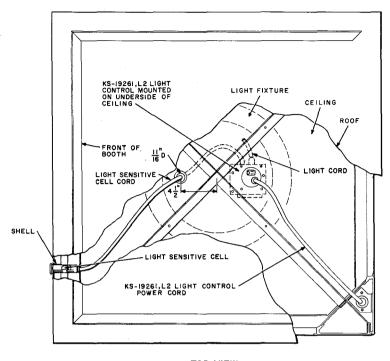
- (b) Lower the dome, unplug light fixture, and remove lamps.
- (c) Remove roof retaining nuts and cord plate.
- (d) Remove light fixture and cord mounting plate and set it aside.
- (e) Remove roof from booth.



The light cell is mounted in the right-front corner of the roof. Some booths have a plug or knockout for this purpose. If a plug or knockout does not exist, drill one 11/16-inch diameter hole in the roof as shown in Fig. 5. A Greenlee knockout punch should be used if available.

- (f) Secure light control adapter plate on ceiling where cord plate was removed (Fig. 15). This adapter plate must be placed with the two control unit mounting bolts toward the left rear corner of booth.
- (g) Locate and drill one 11/16-inch diameter hole in the ceiling as shown in Fig. 15.

- (h) Push light cell and cord through hole drilled in ceiling and secure grommet. Push the power cord through 2-inch hole and attach control unit to adapter plate (Fig. 16).
- Place outer tube assembly (Fig. 6) through roof hole from outside until the tabs lock behind edge of hole.
- (j) Place control unit power cord plug near receptacle so that it may be reached from inside of booth.
- (k) Place light cell into shell and put roof into position.
- Bend light cord plate and wedge under ballast (Fig. 14).
- (m) Hold light fixture near ceiling and plug light cord into ceiling unit. Position light fixture so that ballast lies along the diagonal from left to rear right booth (starters toward left rear of booth).
- (n) Secure light assembly and roof, replace lamps, and plug control unit into receptacle.
- (o) Secure dome and plug power cord into receptacle.



TOP VIEW

Fig. 12—Ceiling Layout of KS-14611 Booth (Top View)

- (p) Cover light cell to exclude light. Lamps should light within two minutes. If lamps do not light:
  - (1) Remove light plug from light control unit and plug it into electrical receptacle.
  - (2) If lamp(s) illuminates, replace light control unit.
- 3.04 Install List 2 unit in a KS-14611 or KS-16797 multiple installation equipped B-185379 light fixtures as follows:
  - (a) Install light control in first booth as directed in 3.02 or 3.03.
  - (b) Plug power cord from electrical receptacle of second booth into extra outlet in light control unit of first booth.

(c) Plug power cord from electrical receptacle of third, fourth, and fifth booth into electrical receptacle of previous booth.

#### 4. KS-19261, LIST 3 LIGHT CONTROL UNIT

- 4.01 The List 3 unit (Fig. 17) is designed for use in the KS-19426 Versatel\* walk-up, drive-up mounting.
- \* Trademark of Western Electric Co.
- 4.02 Install the List 3 unit as follows:
  - (a) Using KS-19192, List 1 wrench, remove four tamperproof screws, retainer bar, and the light shield from housing. Refer to Section 508-451-100 for detail procedures.
  - (b) Remove coin telephone from housing.

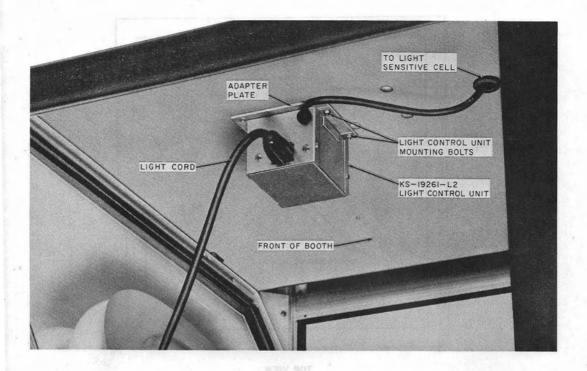


Fig. 13-Position of List 2 Light Control Unit on Ceiling of KS-14611 Booth

- (c) Remove wire channel (Fig. 18) from right side of housing.
- (d) Install control unit in the upper portion of the housing on the bracket provided.
- (e) Connect control unit wires to electrical receptacle as shown in Fig. 19.
- (f) Run the light cell cable down the channel to the underside of the housing.
- (g) Install the wire channel, removed in (c), in its original position.
- (h) Install the light cell in the light cell mounting bracket as shown in Fig. 20.
- Secure the bracket to the bottom of the housing as shown in Fig. 21.
- (j) Install the coin telephone.

- (k) Install light shield as follows:
  - (1) Slide light shield over the panel retaining channels and verify that shield is seated properly against gasket. Ensure that back edge of shield is engaged in KS-19426, List 34 top assembly, or B-564418 subset cover assembly (whichever is applicable).
  - (2) Install shield retainer bar across top of housing using four No. 10-24 by 1/2 tamper proof screws, and KS-19192, List 1 wrench.
- (l) Cover light cell to exclude light. Lamps should light within two minutes. If lamps do not light:
- (1) Remove electric wire nut (Fig. 19) from black wires. Connect black wire from AC power source to electrical receptacle on terminal opposite white wire.

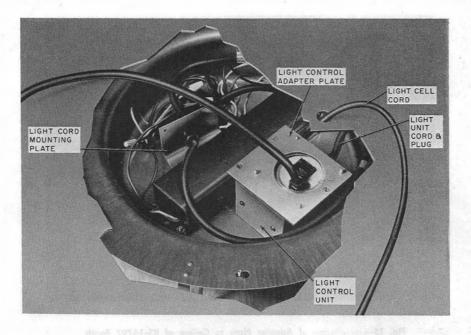


Fig. 14—Position of Light Control in Light Fixture

- If lamp illuminates, replace light control unit.
- 4.03 Install the List 3 unit in a multiple installation as follows:
  - (a) Install light control in first mounting as directed in 4.02.
  - (b) Connect wires of control unit to electrical receptacle of prime mounting as shown in Fig. 19.



The prime mounting is the one into which the outside power wiring is connected.

(c) Connect the electrical receptacle of each succeeding mounting to the electrical receptacle of previous mounting with approved No. 14 gauge wire.

- 5. KS-19261, LIST 4 LIGHT CONTROL UNIT
- 5.01 The List 4 unit (Fig. 22) is used in the KS-20842 SENTRY\* Mounting. It can be used for control of lights at single, back-to-back, or side-by-side installations.

\*Trademark Western Electric Co.



Refer to Section 508-452-100 for assembly and disassembly of parts in the following procedures.

- 5.02 Post Mounted List 31 Housing (Fig. 23):
  - (a) Using a KS-19192, List 1 wrench, remove front panel from post and L-765034 cover from housing.
  - (b) Install the KS-19261, List 4 light control box on mounting bracket in lower right portion of post.

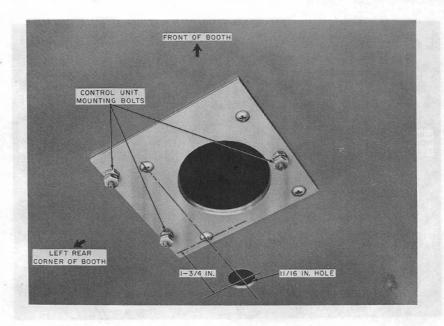


Fig. 15—Installation of Adapter Plate to Ceiling of KS-16797 Booth

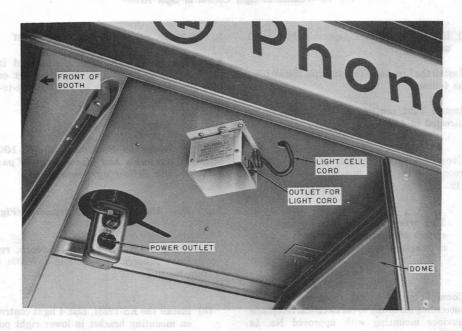


Fig. 16-Position of Light Control on Ceiling of KS-16797 Booth

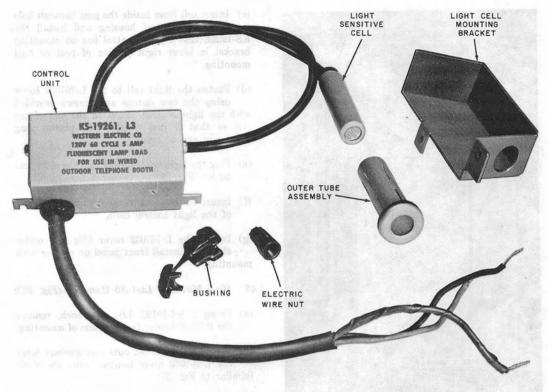


Fig. 17—KS-19261, List 3 Light Control Unit

- (c) Plug light control cord into electrical outlet and install the light sensitive cell in the housing using the two clamps and screws provided with light control.
- (d) Plug housing cord into back of light control plug.
- (e) Replace cover and panel removed in (a).

## 5.03 Wall Mounted List 31 Housing (Fig. 24):

- (a) Using a KS-19192, List 1 wrench, remove L-765048 cover from bottom of wall mounting and L-765034 cover from List 31 housing.
- (b) In bottom cavity of List 42 wall mounting, unplug the electrical cord from electrical connector.

- (c) Loosen cable clamp and pull excess amount of electrical cord back into lighting compartment of the List 31 housing.
- (d) From inside the bottom cavity of wall mounting, push light sensitive cell through power cord hole.
- (e) Plug the connector of light control unit into the electrical connector of wall mounting.
- (f) Plug housing cord into rear of control unit plug.
  - (g) Orient control unit as shown in Fig. 24. Insert control unit plus excess cord into bottom of cavity and install L-765048 cover removed in (a).

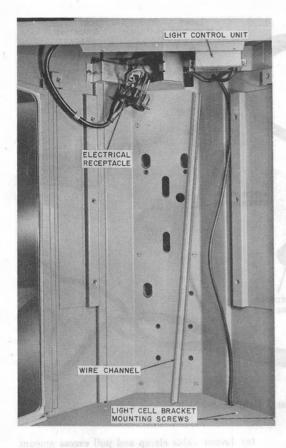


Fig. 18—Installation of List 3 Light Control Unit

- (h) Secure light sensitive cell to housing using two cable clamps provided (Fig. 23).
  - (i) Install L-765034 cover removed in (a).
- 5.04 Post and Wall Mounted List 32 and 33 Housings and Post Mounted List 35 Housings:
  - (a) Using KS-19192, List 1 wrench, remove the front panel from the post or wall mounting.
- (b) Remove the two nuts and washers from the L-767032 cover located under shelf (Fig. 25).

- (c) Insert cell from inside the post through hole in lower part of housing and install the KS-19261, List 4 light control box on mounting bracket in lower right portion of post or wall mounting.
- (d) Fasten the light cell to the L-767032 cover using the two clamps and screws provided with the light control. Position the end of the cell so that it just touches the plastic plug located in end of cover.
- (e) Plug the light control cord into the electrical outlet (Fig. 25).
- (f) Insert the housing power cord into the rear of the light control cord.
- (g) Install the L-767032 cover (Fig. 25) under shelf and install front panel on post or wall mounting.

## 5.05 Wall Mounted List 35 Housing (Fig. 26):

- (a) Using a KS-19192, List 1 wrench, remove the B-994955 cover from bottom of mounting.
- (b) Remove the two hex nuts and washers from the L-767032 cover located under the shelf (similar to Fig. 25).
- (c) In bottom cavity of List 45 wall mounting, unplug the electrical cord from electrical connector
- (d) Loosen cable clamp and pull excess amount of electrical cord back up into wire channel in left-rear portion of housing (Fig. 26).
- (e) From inside bottom cavity of mounting, push light sensitive cell through power cord hole.
  - (f) Fasten the light cell to the L-767032 cover using the two clamps and screws provided with light control. Position the end of the cell so that it just touches the plastic plug located in end of cover.
  - (g) Plug the connector of light control unit into the electrical connector of wall mounting.
  - (h) Plug housing cord into rear of control unit plug.

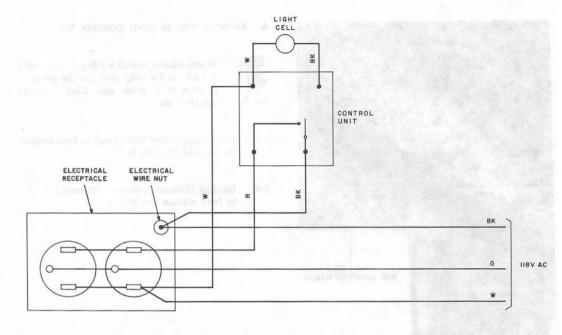


Fig. 19-Wiring Diagram of KS-19261, List 3 Light Control Unit

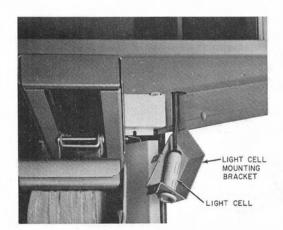


Fig. 20-Installation of Light Cell in Mounting Bracket

 Insert control unit into bottom of cavity in wall mounting and install B-994955 cover removed in (a). (j) Using the two hex nuts and washers removed in (b) secure L-767032 cover to shelf.

#### 5.06 Back-to-Back and Side-By-Side Installations:

#### (a) Back-to-Back Housings (Fig. 27):

(1) Use the KS-19261, List 4 light control unit in conjunction with an L-765058 cord assembly. The cord assembly is furnished as part of the KS-20842, List 71 and List 95 multipling kits.

### (b) Side-by-Side Housings (Fig. 28):

- Install the KS-19261, List 4 light control unit in the first station and connect succeeding stations per Fig. 29.
- (2) When List 31 or List 35 housing is installed side-by-side, spaced apart, use a KS-19261, List 10 light control kit as described in Part 6.

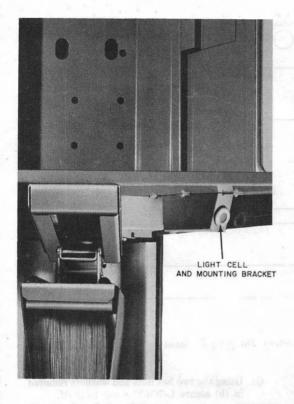


Fig. 21—Installation of Mounting Bracket on KS-19426
Mounting

#### 6. KS-19261, LIST 10 LIGHT CONTROL KIT



When underground wiring is involved, a List 10 kit (Fig. 30) can be used in conjunction with the List 4 light control unit.

- 6.01 Install List 4 light control unit in first station as directed in Part 5.
- 6.02 Use List 10 kit and connect additional stations to first station per Fig. 31.



Fig. 22-KS-19261, List 4 Light Control Unit

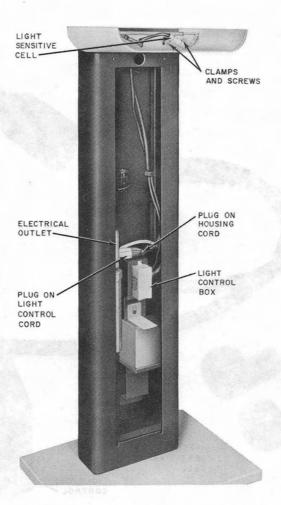
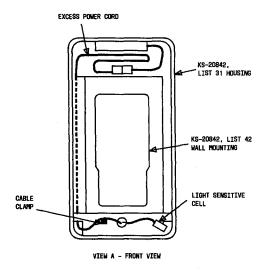


Fig. 23—KS-19261, List 4 Light Control Unit Installed with Single List 31 Housing



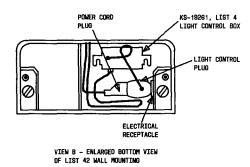


Fig. 24—Installation of KS-19261, List 4 Light Control Unit in KS-20842, List 42 Wall Mounting

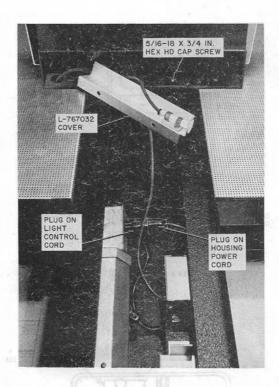
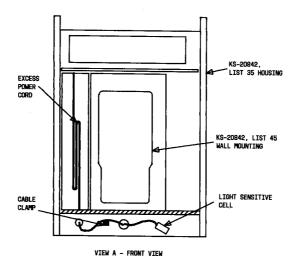


Fig. 25—KS-19261, List 4 Light Control Unit Installed with List 32 Housing (Typical for List 33 and List 34)



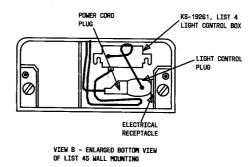


Fig. 26—Installation of KS-19261, List 4 Light Control Unit in KS-20842, List 45 Wall Mounting

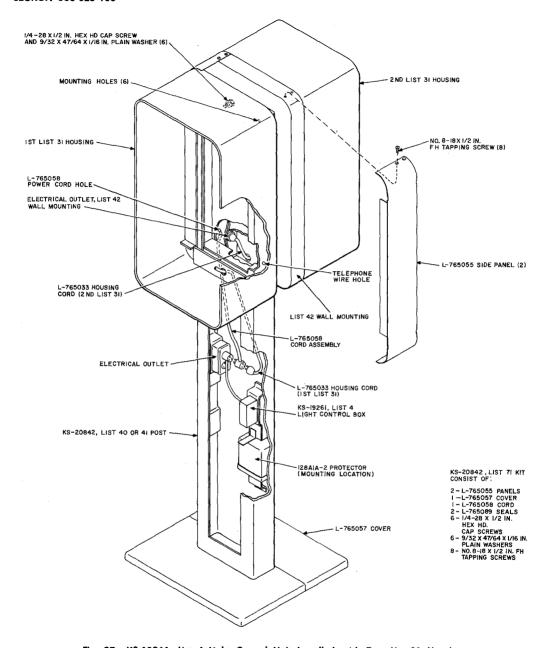


Fig. 27—KS-19261, List 4 Light Control Unit Installed with Two List 31 Housings

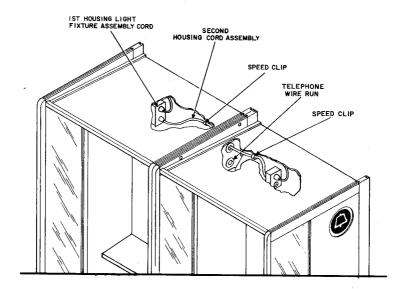
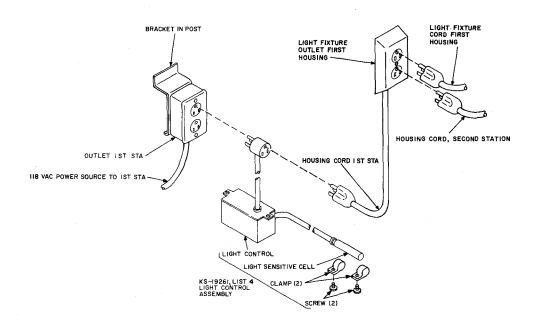
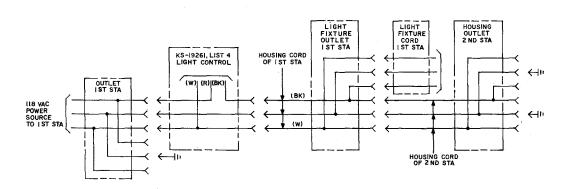


Fig. 28—Electrical Wiring Arrangement of Two List 32 Housings Installed Side-By-Side Typical for List 33, List 34, and List 35 Housings



A. LAYOUT DIAGRAM OF KS-19261, LIST 4, LIGHT CONTROL ASSEMBLY



B. WIRING DIAGRAM OF KS-1926I, LIST 4, LIGHT CONTROL ASSEMBLY

Fig. 29—Multiple KS-20842 Telephone Mounting Using Only a KS-19261, List 4 Light Control

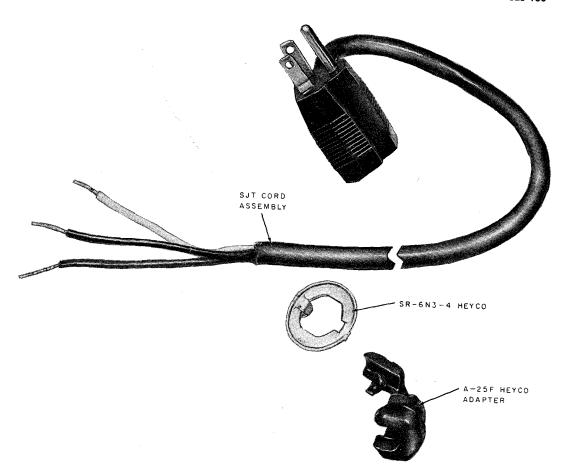
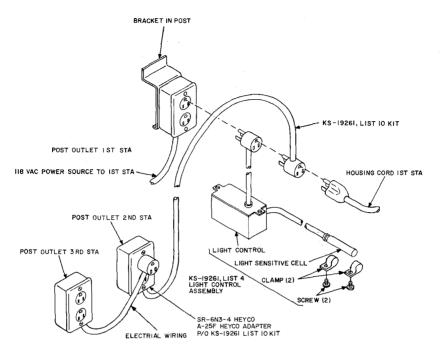
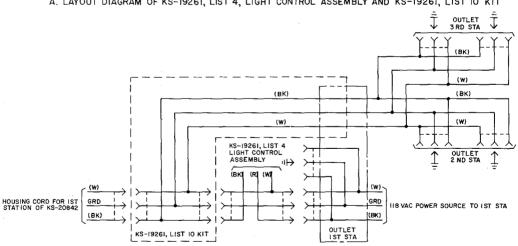


Fig. 30-KS-19261, List 10 Kit



A. LAYOUT DIAGRAM OF KS-19261, LIST 4, LIGHT CONTROL ASSEMBLY AND KS-19261, LIST 10 KIT



B. WIRING DIAGRAM OF KS-1926I, LIST 4, LIGHT CONTROL ASSEMBLY AND KS-1926I, LIST 10 KIT

Fig. 31—Multiple KS-20842 Telephone Mounting Using KS-19261, List 4 Light Control and KS-19261, List 10 Kit