

KS-19207

LIGHT AND BLOWER UNIT

IDENTIFICATION, INSTALLATION, AND MAINTENANCE

1. GENERAL

1.01 This section is reissued to:

- Revise references

1.02 The KS-19207 light and blower unit provides light and ventilation for the KS-14611, KS-16797, KS-19206, KS-19340, KS-19425, KS-19442, and KS-19580 telephone booths.

1.03 The basic unit consists of a plate which contains either one or two ballasts, a starting ring assembly or clips, lamp cords, and in some cases a blower (Fig. 1).

1.04 The overall dimensions of a unit with two lamps and a blower are 21-3/4 by 16-1/2 by 4-1/2 inches.

1.05 The blower consists of a motor and an impeller which are mounted in the center of the unit; however, a unit may be ordered without a blower. The blower may be controlled by a manual wall switch which is turned on or off at will and/or a door operated switch.

1.06 The lamps are 40-watt Circline, cool white fluorescent. One lamp may be used for indoor booths but two are recommended for outdoor use. The lamps are not furnished as part of the unit and must be ordered separately as a part of the booth in which the unit is installed.

1.07 The lamps are wired for continuous illumination but may be wired to be controlled by a door operated switch. They also may be automatically controlled by a KS-19261 light control unit. See Division 508 section entitled: KS-19261 Light Controls, Identification, Installation, and Maintenance.

1.08 The rapid-start ballasts will operate in temperatures as low as -10 degrees F.

2. IDENTIFICATION



List numbers have been assigned to facilitate ordering of various options as follows:

2.01 KS-19207, List 1 Light and Blower Unit (Fig. 1)

(a) List 1 unit is designed for use in KS-19206, KS-19340, and KS-19442 indoor telephone booths where ventilation is required.

(b) List 1 unit consists of the following basic items:

- B-555214-1 light fixture plate
- G.E. No. 6G3640 rapid-start ballast
- Three B-555207 clips (for mounting single lamp)
- B-555679 terminal board assembly
- B-556232 motor assembly consisting of:

KS-19218, List 1 motor

B-555204 motor mount

B-555208 impeller assembly

(c) Two twistlock connectors are provided, one for connecting a customer-controlled blower switch, and the other for connecting a door operated switch.

(d) See Fig. 2 for List 1 unit connections.

2.02 KS-19207, List 2 Light Fixture

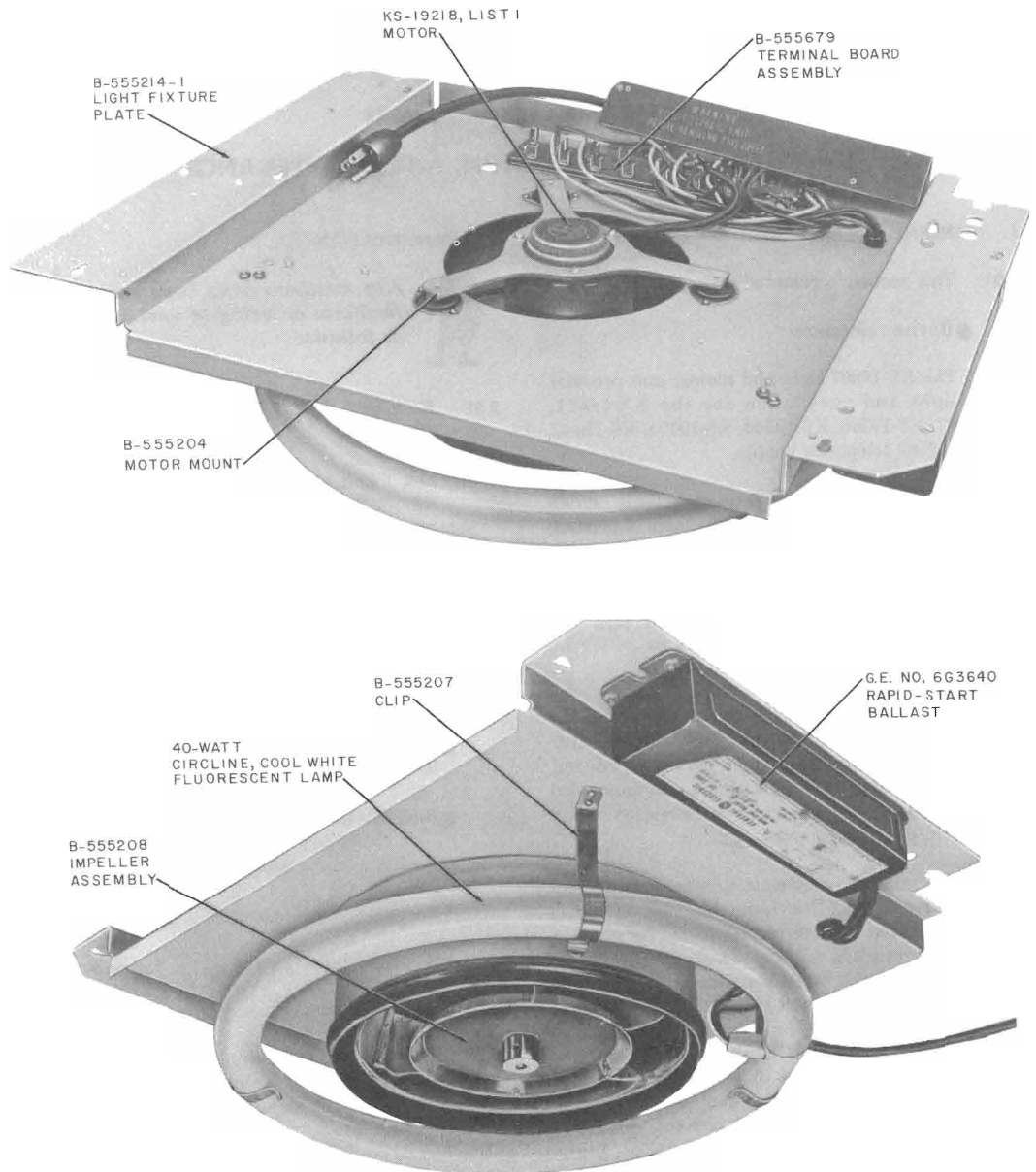


Fig. 1—KS-19207, List 1 Light and Blower Unit Plus Lamp

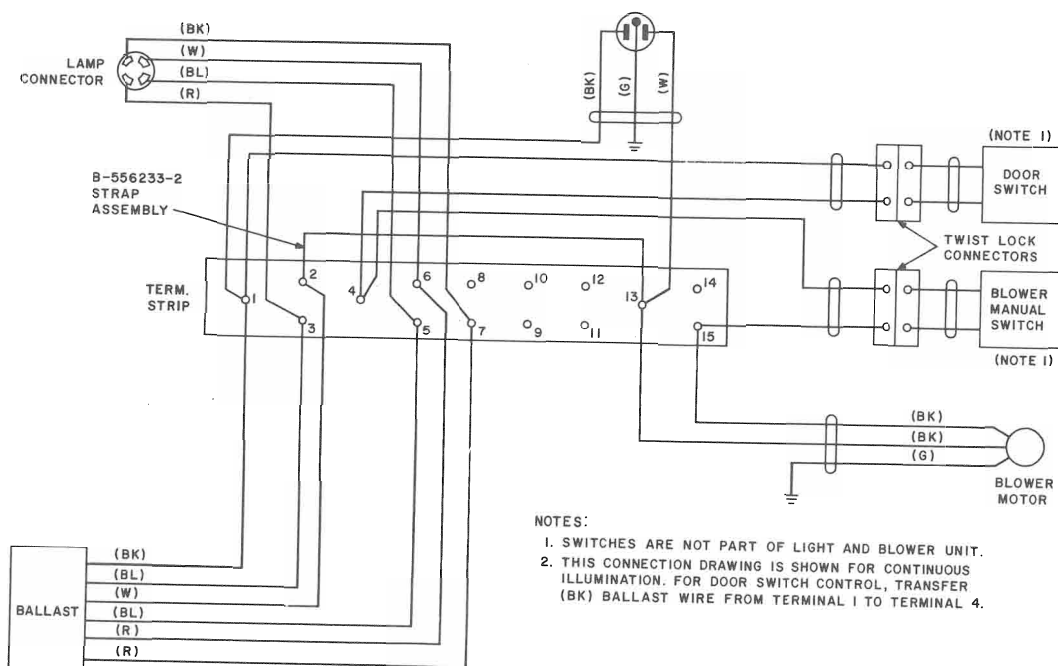


Fig. 2—Connections For List 1 Unit

- (a) List 2 unit is similar to the List 1 unit except that it has no blower. It is designed for use in KS-19206, KS-19340, and KS-19442 indoor telephone booths where no ventilation is required.

- (B) List 2 unit consists of the following basic items:

- B-555214-1 light fixture plate
- G.E. No. 6G3640 rapid-start ballast
- Three B-555207 clips (for mounting single lamp)
- B-555679 terminal board assembly

- (c) See Fig. 3 for List 2 unit connections.

2.03 *KS-19207, List 3 Light and Blower Unit (Fig. 4)*

- (a) List 3 unit is designed for use in KS-19425 and KS-19580 indoor or outdoor telephone booths where ventilation is required.

- (b) List 3 unit consists of the following basic items:

- B-555214-1 light fixture plate
- Two G.E. No. 6G3640 rapid-start ballasts
- B-555215 starting ring assembly (for mounting two lamps)
- B-555679 terminal board assembly
- B-556232 motor assembly consisting of:

KS-19218, List 1 motor

B-555204 motor mount

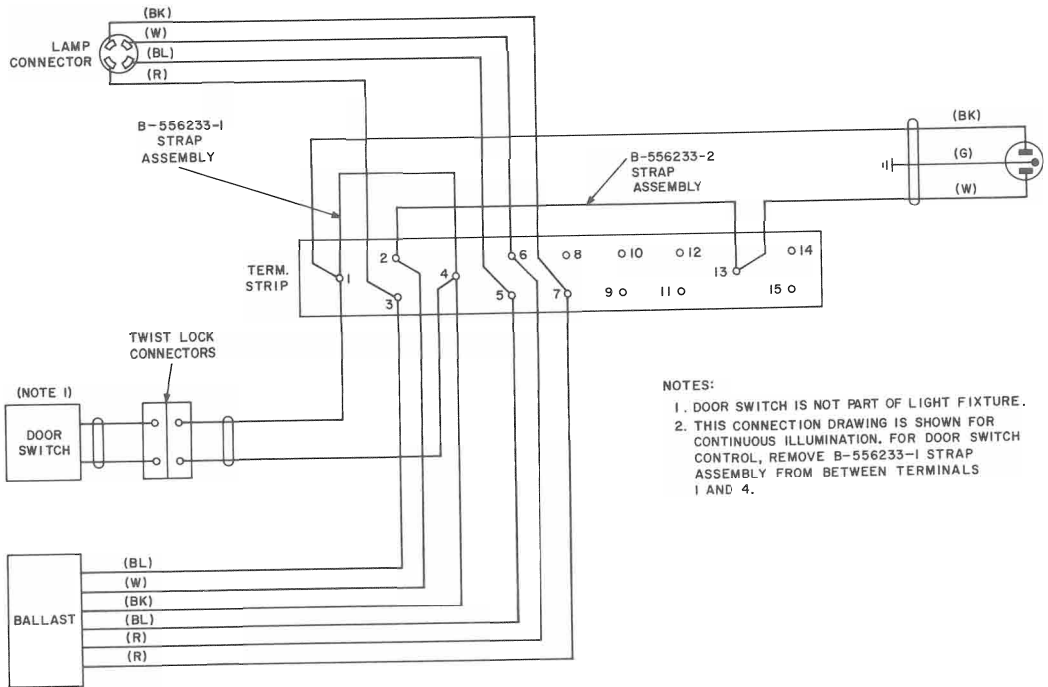


Fig. 3—Connections For List 2 Unit

B-555208 impeller assembly

(c) Two twistlock connectors are provided, one for connecting a customer-controlled blower switch, and the other for connecting a door operated switch.

(d) List 3 unit is provided with terminals to be connected for continuous illumination or for automatic operation with a light control unit or door operated switch (Fig. 5).

2.04 KS-19207, List 4 Light Fixture (Fig. 6)

(a) List 4 unit is designed for use in KS-14611 outdoor telephone booth as a replacement for B-185379 light fixture.

(b) List 4 unit consists of the following basic items:

- B-555214-1 light fixture plate

- Two G.E. No. 6G3640 rapid-start ballasts

- B-555215 starting ring assembly (for mounting two lamps)

- B-555679 terminal board assembly

- Four B-555213 standoff assemblies

(c) List 4 unit is provided with terminals to be connected for continuous illumination or for automatic operation with a light control unit (Fig. 7).

2.05 KS-19207, List 5 Blower

(a) List 5 blower is designed to be added to List 2 or List 7 light fixtures if it becomes necessary to ventilate a booth.

(b) This blower is also a replacement part for defective blowers in the field.

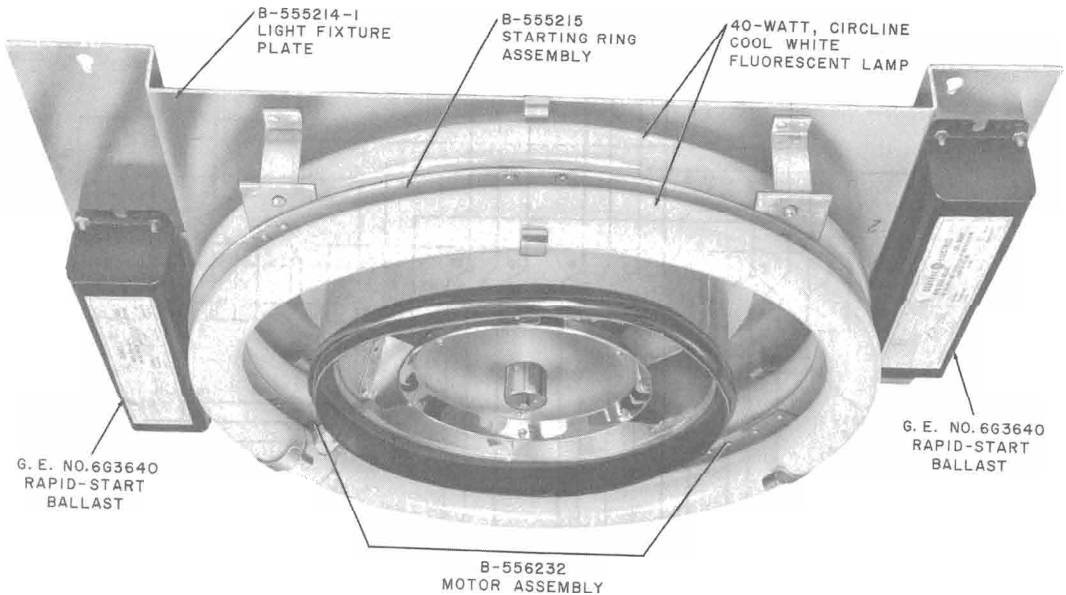


Fig. 4—KS-19207, List 3 Light and Blower Unit Plus Lamps

- (c) List 5 blower consists of the following basic items:

- B-556232 motor assembly consisting of:

KS-19218, List 1 motor

B-555204 motor mount

B-555208 impeller assembly

- Two G.E. No. 6G3640 rapid-start ballasts

- B-555215 starting ring assembly (for mounting two lamps)

- B-555679 terminal board assembly

- Four B-555213 standoff assemblies

- (c) List 6 unit is provided with terminals to be connected for continuous illumination or for automatic operation with a light control unit (Fig. 7).

2.06 KS-19207, List 6 Light Fixture

Note: List 6 unit is similar to List 4 (Fig. 6) except that the light fixture plates are different for mounting purposes.

- (a) List 6 unit is designed for use in KS-16797 telephone booth as a replacement for B-185379 light fixture.

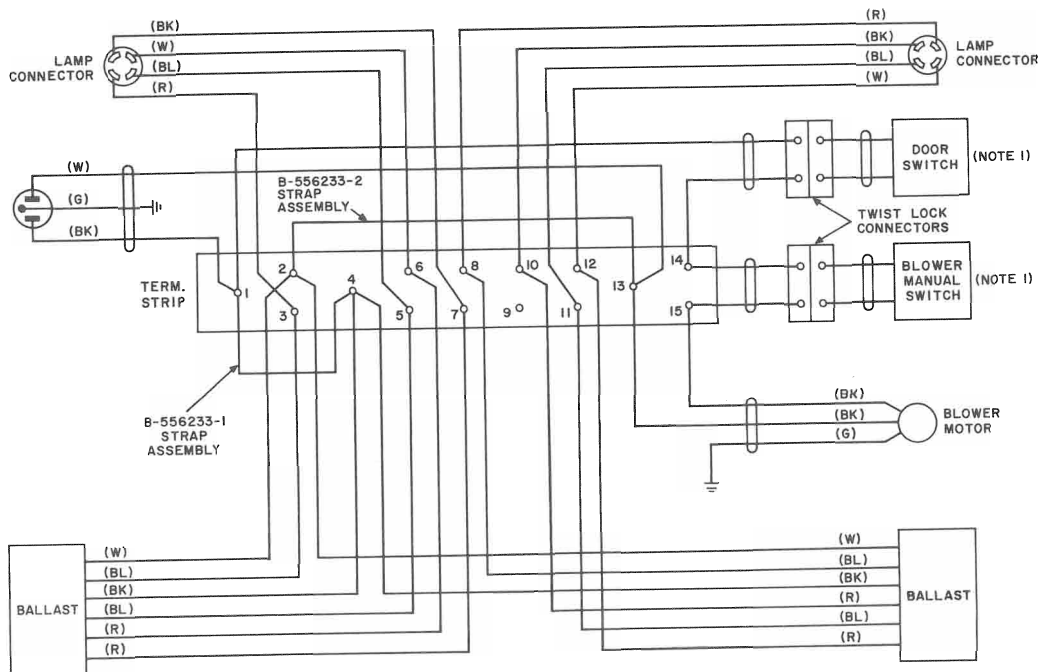
- (b) List 6 consists of the following basic items.

- B-555214-2 light fixture plate

2.07 KS-19207, List 7 Light Fixture

Note: List 7 unit is similar to List 4 (Fig. 6) except that List 7 unit is equipped with a B-556772 collar assembly.

- (a) List 7 unit is designed for use in KS-19425 and KS-19580 telephone booths where no ventilation is required.



NOTES:

1. SWITCHES ARE NOT PART OF LIGHT AND BLOWER UNIT.
2. THIS CONNECTION DRAWING IS SHOWN FOR CONTINUOUS ILLUMINATION. FOR DOOR SWITCH CONTROL, REMOVE B-556233-1 STRAP ASSEMBLY FROM TERMINALS 1 AND 4 AND TRANSFER THE DOOR SWITCH AND BLOWER MANUAL SWITCH WIRES FROM TERMINAL 14 TO TERMINAL 4.
3. FOR AUTOMATIC LIGHT CONTROL, REFER TO SECTION 508-825-100.

Fig. 5—Connections For List 3 Unit

(b) List 7 unit consists of the following basic items:

- B-555214-1 light fixture plate
- Two G.E. No. 6G3640 rapid-start ballasts
- B-555215 starting ring assembly (for mounting two lamps)
- B-555679 terminal board assembly

(c) See Fig. 8 for List 7 unit connections.

3. INSTALLATION



The KS-19207, List 4 and List 6 light fixtures are replacement units for B-185379 light fixture and are designed for field installation in KS-14611 and KS-16797 telephone booths, respectively.

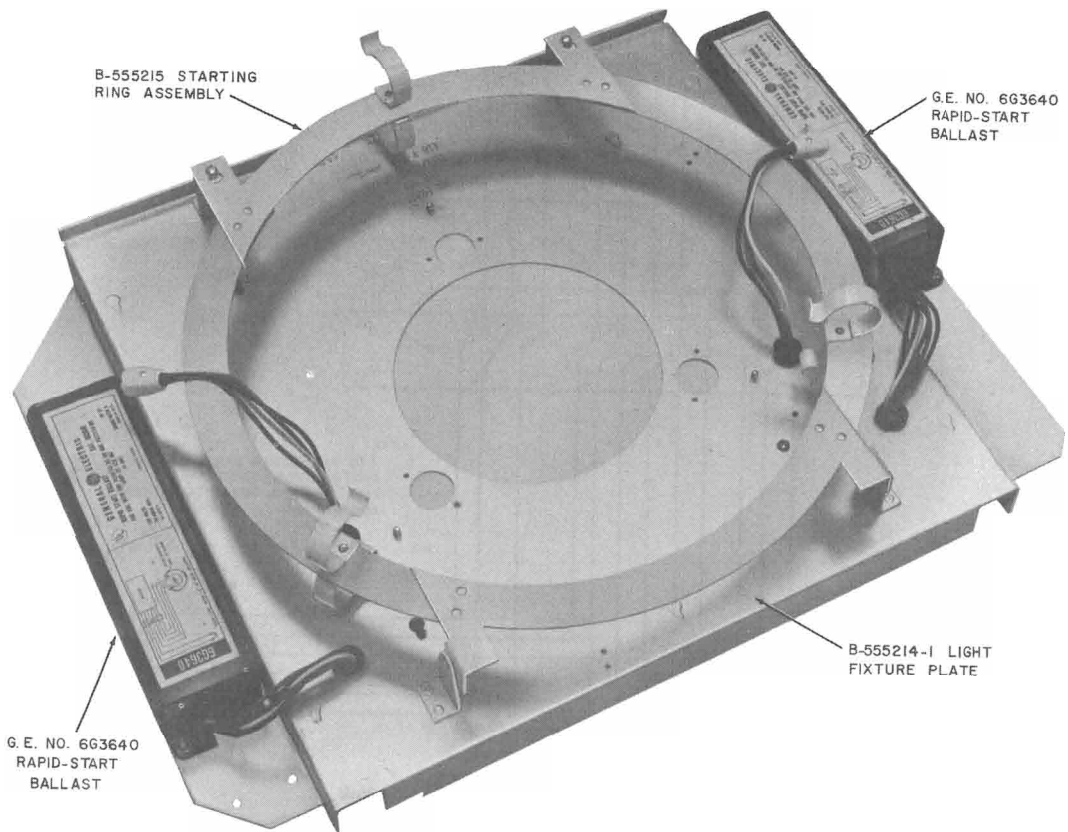


Fig. 6—KS-19207, List 4 Light Fixture

3.01 Replace the B-185379 light fixture in KS-14611 telephone both with a KS-19207, List 4 light fixture as follows:

- (a) Lower dome and remove the two lamps to a safe area.
- (b) Remove roof fasteners by reaching through dome opening in ceiling and remove roof.
- (c) Unplug light cord from electrical receptacle.
- (d) Loosen the four light fixture mounting screws (Fig. 9) and carefully lower the light fixture and place it in dome.
- (e) Remove and retain the cord plate screws (Fig. 9) and dispose of the light fixture in accordance with local regulations.
- (f) Remove and discard the light fixture mounting screws.
- (g) Install four B-555213 standoffs (Fig. 10) (furnished with light fixture) in the holes vacated by the light fixture mounting screws.
- (h) Position KS-19207 light fixture in a suitable work area, loosen the two starter ring assembly mounting screws, and raise the starter ring assembly as shown (Fig. 11).

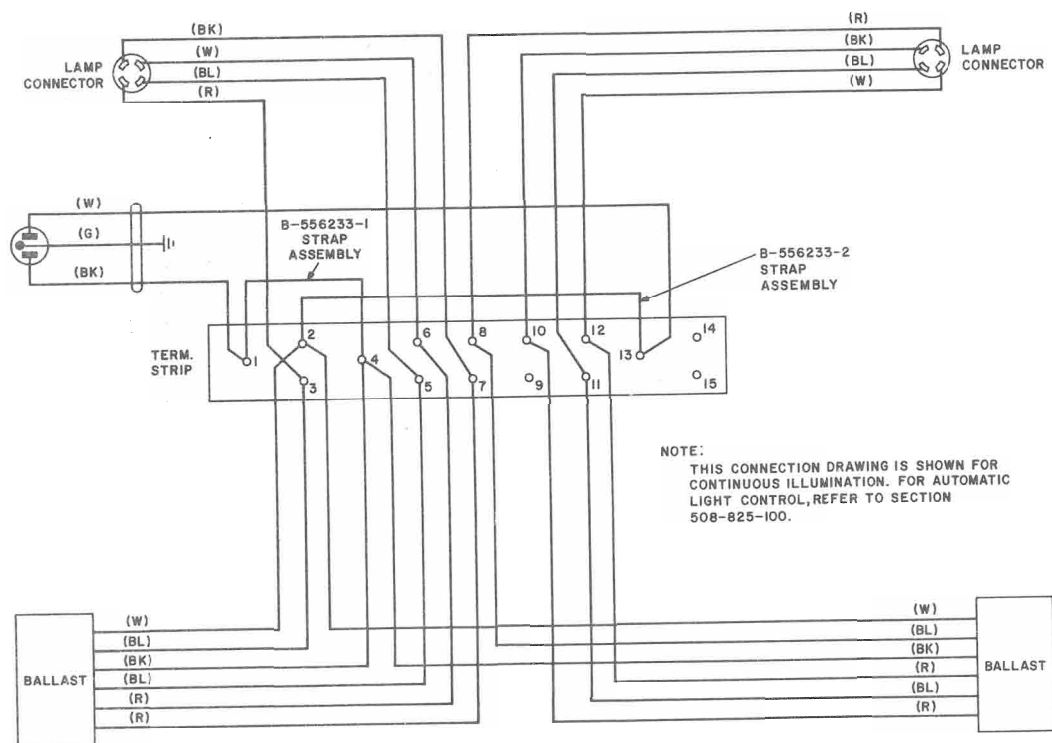


Fig. 7—Connections For List 4 or List 6 Unit

(i) Remove the knockouts (Fig. 11) as shown in Fig. 12.

(j) Position the light fixture in the dome as shown in Fig. 13 and insert light cord through hole in ceiling.



The cord is not centered in mounting plate. Plate should be mounted so that cord is as far toward front of booth as possible.

(k) Secure mounting plate to ceiling using the four screws retained in (e).

(l) Install light fixture on standoffs and secure by tightening the standoff screws.

(m) Install one of the lamps, removed in (a), on starter ring assembly (Fig. 14).

(n) Secure the starter ring assembly in its normal position and install the remaining lamp (Fig. 15).

(o) Plug the light cord plug into the electrical receptacle and verify that lamps will illuminate.

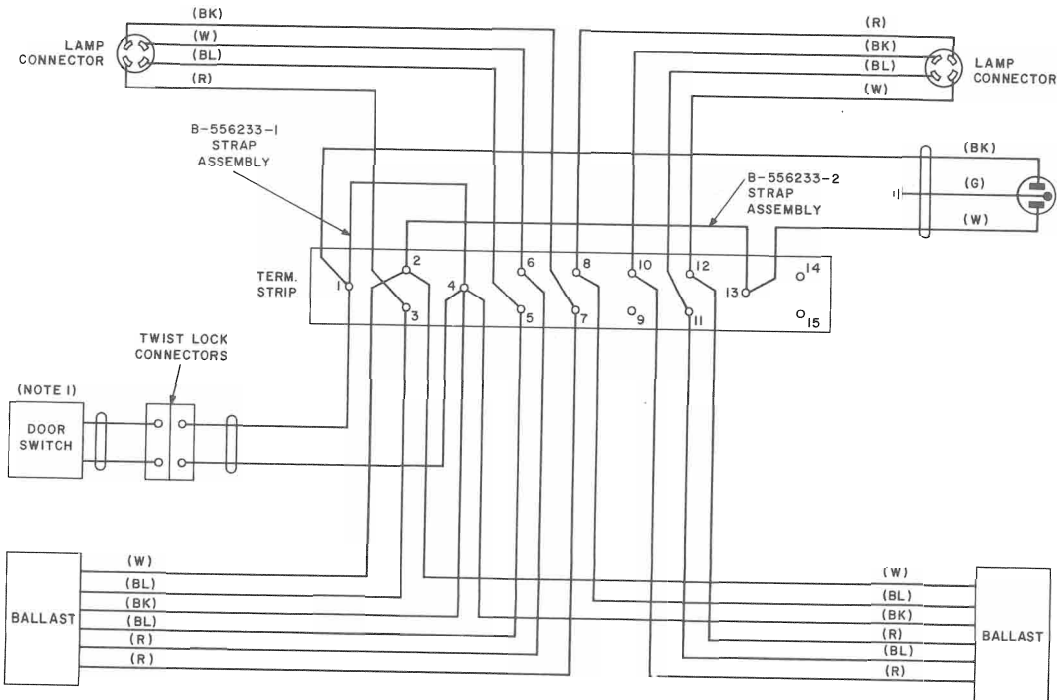
(p) Install and secure roof on booth.

(q) Fasten dome assembly in its original position.

3.02 Replace the B-185379 light fixture in KS-16797 telephone booth with a KS-19207, List 6 light fixture as follows:

(a) Perform the operations outlined in 3.01 (a) through (g).

(b) Move connecting block or protector (and subset if mounted on underside of ceiling)



NOTES:

1. DOOR SWITCH IS NOT PART OF LIGHT FIXTURE.
2. THIS CONNECTION DRAWING IS SHOWN FOR CONTINUOUS ILLUMINATION. FOR DOOR SWITCH CONTROL, REMOVE B-556233-1 STRAP ASSEMBLY FROM BETWEEN TERMINALS 1 AND 4.
3. FOR AUTOMATIC LIGHT CONTROL REFER TO SECTION 508-825-100.

Fig. 8—Connections For List 7 Unit

to top surface of ceiling. Relocate service wires as required.

THINK Check roof at protector location and determine that telephone line is not shorted or grounded to roof.

- (c) Perform the operations outlined in 3.01 (h) through (q).

4. MAINTENANCE

4.01 Maintenance on KS-19207 light and blower units consists primarily of replacing components listed in Table A.

4.02 Refer to Fig. 2, 3, 5, 7, and 8 for various connections if electrical failure should occur.

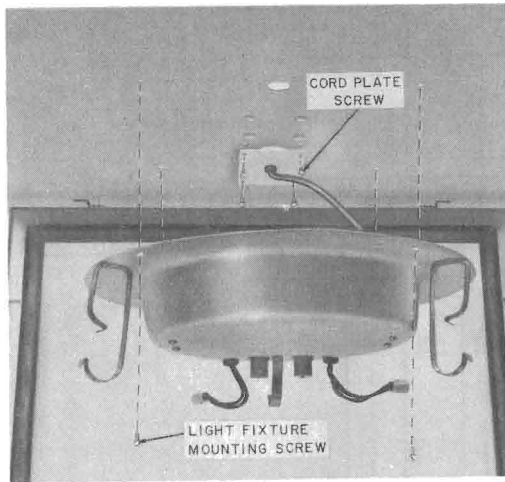


Fig. 9—Removal of B-185379 Light Fixture

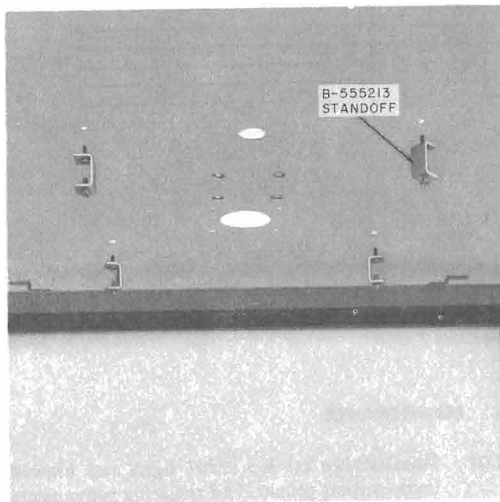


Fig. 10—Installation of B-555213 Standoffs

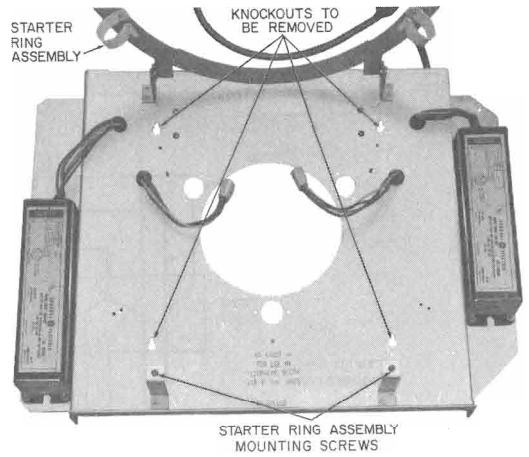


Fig. 11—KS-19207 Light Fixture With Starter Ring Assembly in Raised Position

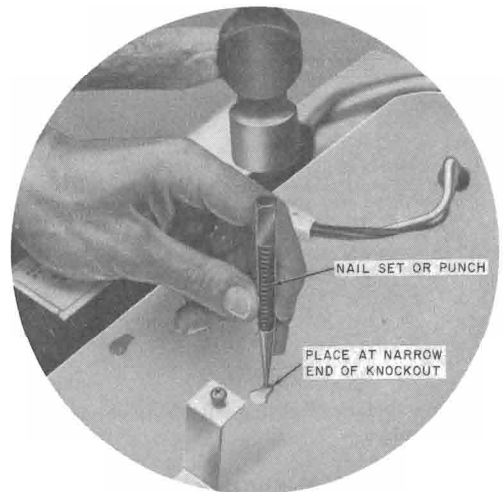


Fig. 12—Removing Knockout

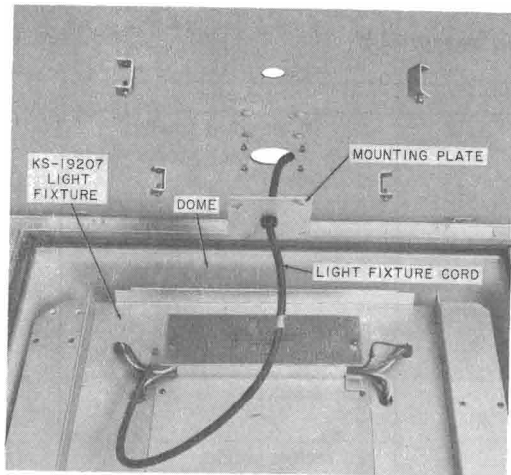


Fig. 13—Securing Mounting Plate to Ceiling

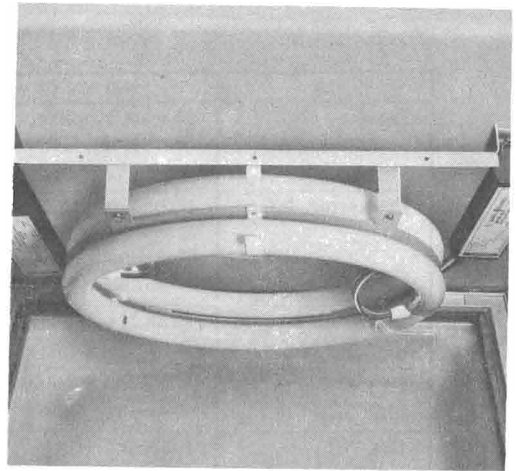


Fig. 15—Starter Ring Assembly Secured in Normal Position

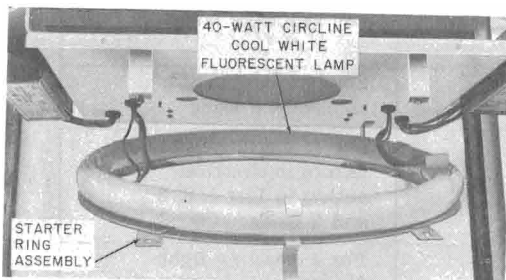


Fig. 14—Installing Lamp on Starter Ring Assembly

TABLE A
REPLACEMENT PARTS

ITEM	PART NO. OR DESCRIPTION	REMARKS
Lamp	40-watt Circline, fluorescent, CW	May be obtained locally through normal supply channels
Connector, lamp	16-inch leads (BL, BK, R & W) equipped w/Electric Terminal Co. No. DF-210-THB terminals	May be obtained from Heyman Mfg. Corp, Kenilworth, N. J.
Terminal	Kent No. 121179, type R	To fasten all leads to terminal board
Ballast	G.E. No. 6G3640 w/15-inch leads	Rapid-start
Clip	B-555207	To secure single lamp to fixture
Tube clamp	Tinnerman No. C3049-A-7-108	To secure double lamps to starting ring assembly
Starting ring assembly	B-555215	For mounting lamps
Terminal board assembly	B-555679	For termination of all electrical leads
Cord assembly	B-555216-1	For connecting light fixture to electrical outlets in List 1, 2, 3 and 7 units
Cord assembly	G-555216-2	For connecting light fixture to electrical outlet in List 4 and 6 units
Strap assembly	B-556233-1	2-inch long strap for providing wire options
Strap assembly	B-556233-2	6-1/2 inch long strap for providing wire options
Cord assembly	B-650344-1	For connecting lamp circuit to door switch
Cord assembly	B-650344-2	For connecting blower motor circuit to door or manual switch
Standoff assembly	B-555213	For mounting unit to ceiling
Motor assembly	B-556232	Contains motor and blower for replacement