

KS-19207 LIGHT AND BLOWER UNIT IDENTIFICATION, INSTALLATION, AND MAINTENANCE

1. GENERAL

1.01 The KS-19207 light and blower unit provides light and ventilation for the KS-14611 manufacture discontinued (MD), KS-16797 (MD), KS-19206, KS-19340, KS-19425, KS-19442, KS-19580, and KS-21716 telephone booths.

1.02 This section is reissued to:

- (a) Revise Fig. 1 through 8
- (b) Show 6G3640 ballast changed to 8G3640 ballast
- (c) Show KS-14611 and KS-16797 telephone booths MD.

Revision arrows are used to emphasize the more significant changes.

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 A unit with two lamps and a blower is 21-3/4 inches long, 16-1/2 inches deep, and 4-1/2 inches high.

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 fluorescent Circline cool-white. 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. Refer to Section 508-825-100 for further information.

1.08 The rapid-start ballasts will operate in temperatures as low as -10°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):* List 1 unit is designed for use in KS-19206, KS-19340, and KS-19442 indoor telephone booths where ventilation is required. List 1 unit consists of the following basic items:

- (a) B-555214-1 light fixture plate
- (b) G.E. No. 8G3640 rapid-start ballast
- (c) Three B-555207 clips (for mounting single lamp)
- (d) B-555679 terminal board assembly
- (e) B-556232 motor assembly consisting of:
 - KS-19218, List 1 motor
 - B-555204 motor mount
 - B-555208 impeller assembly.

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

2.03 See Fig. 2 for List 1 unit connections.

2.04 *KS-19207, List 2 Light Fixture:* List 2 unit is similar to the List 1 unit except that it

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Not for use or disclosure outside the
Bell System except under written agreement

SECTION 508-820-100

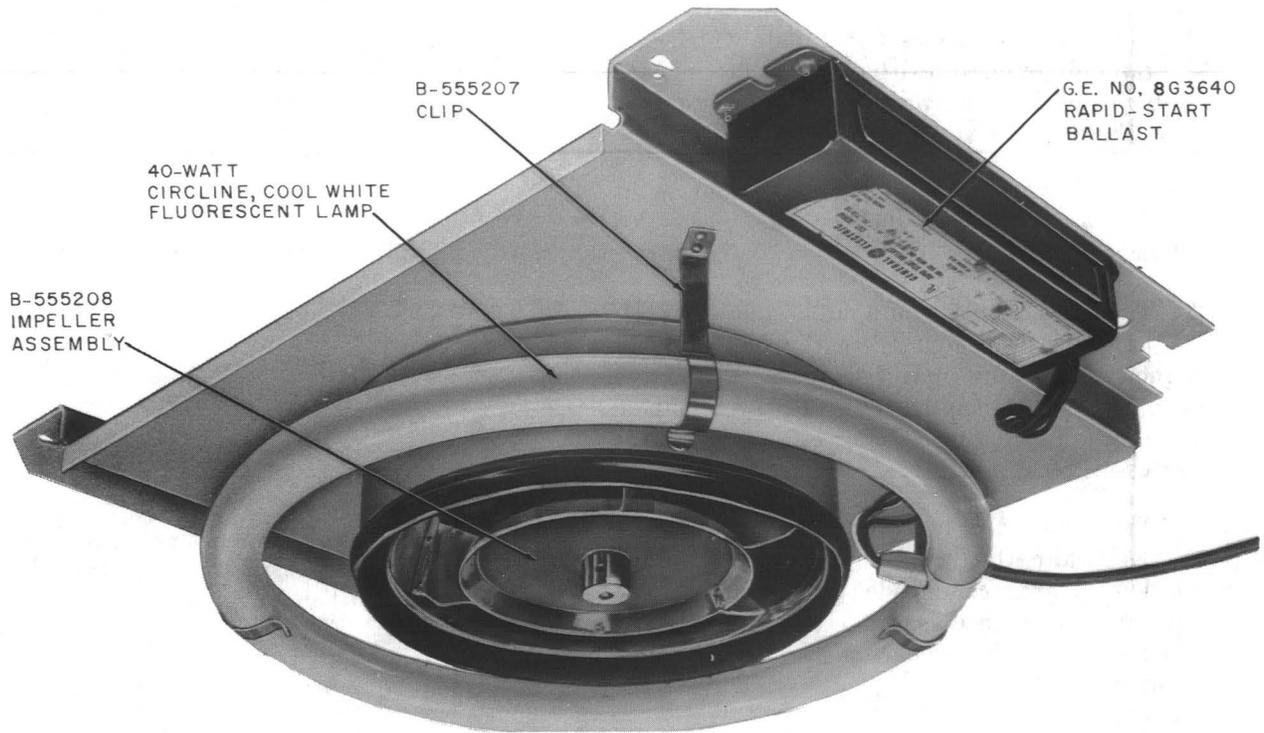
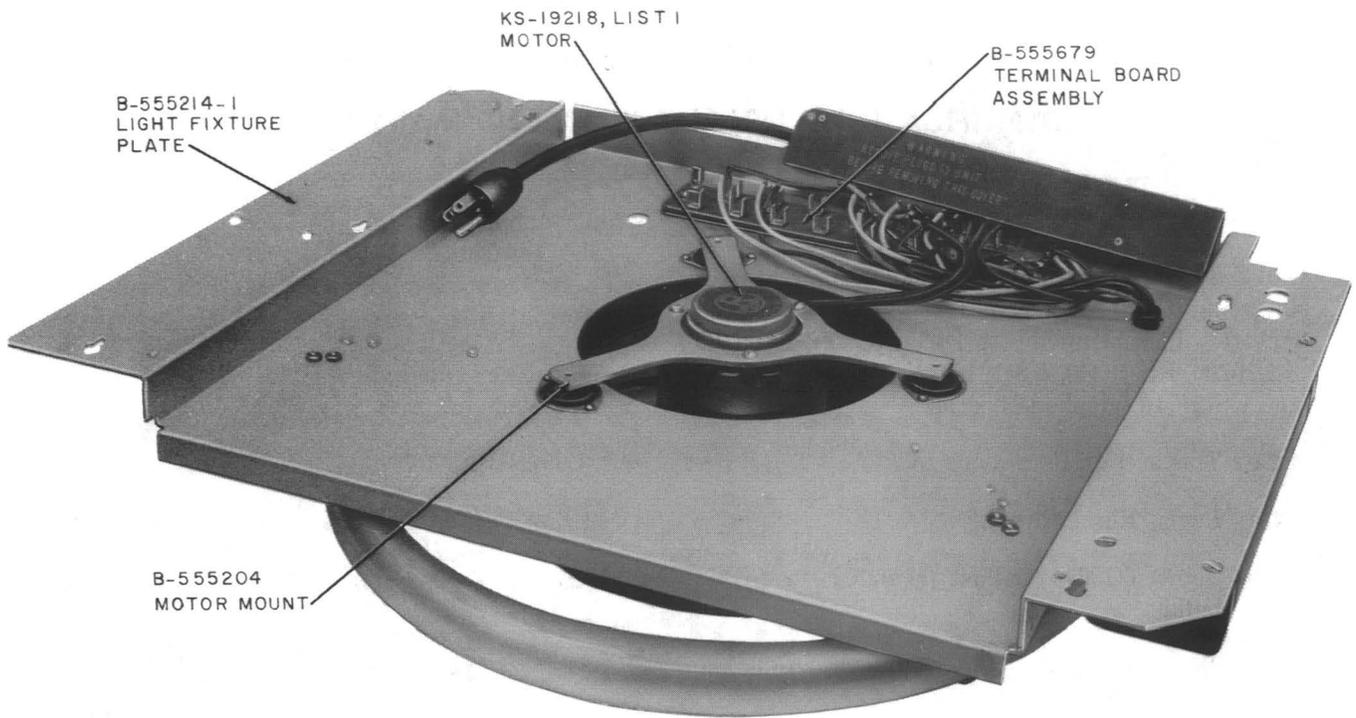


Fig. 1—KS-19207, List 1 Light and Blower Unit Plus Lamp

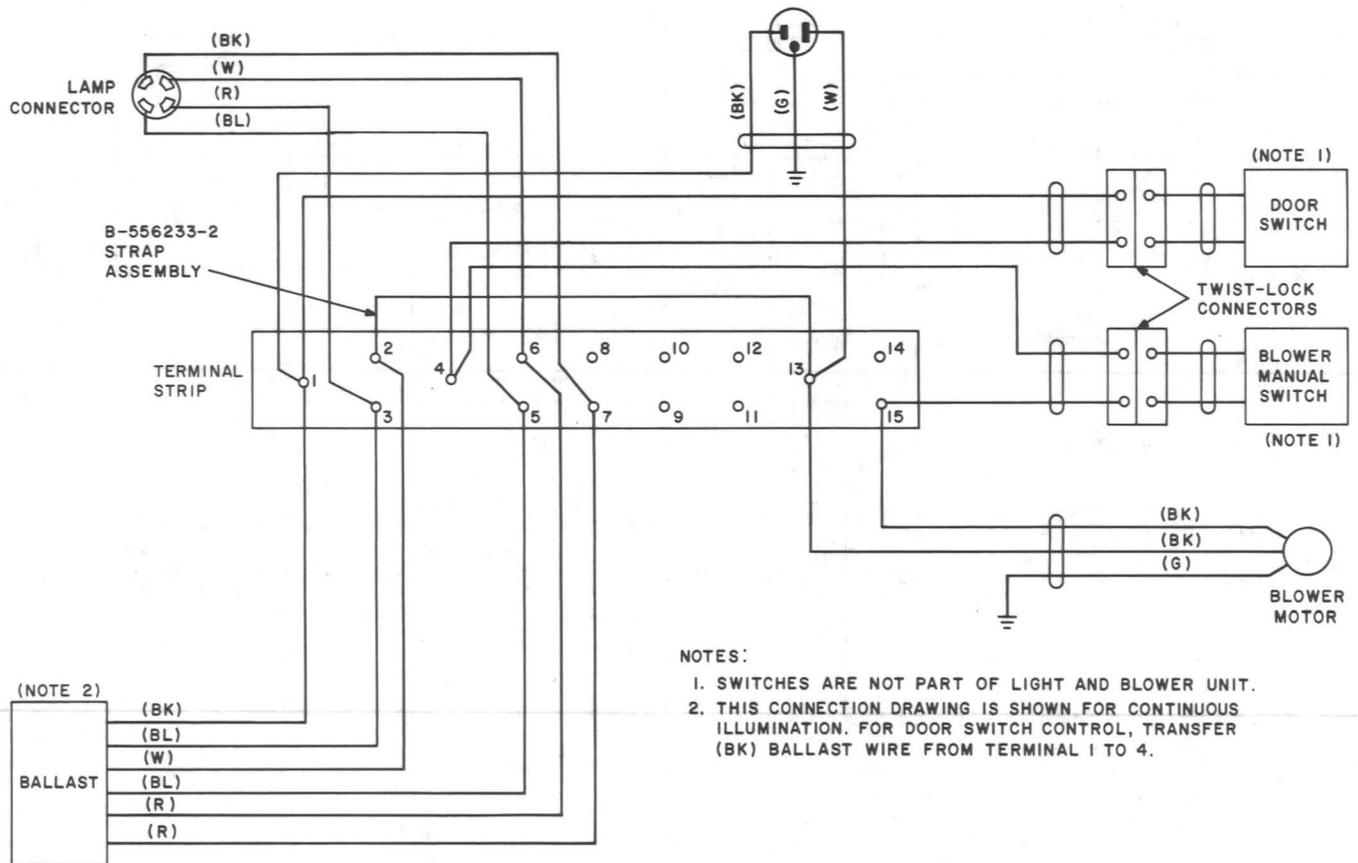


Fig. 2—Connections for List 1 Unit

has no blower. It is designed for use in KS-19206, KS-19340, and KS-19442 indoor telephone booths where no ventilation is required. List 2 unit consists of the following basic items:

- B-555214-1 light fixture plate
- G.E. No. 8G3640 rapid-start ballast
- Three B-555207 clips (for mounting single lamp)
- B-555679 terminal board assembly.

2.05 See Fig. 3 for List 2 unit connections.

2.06 KS-19207, List 3 Light and Blower Unit (Fig. 4): List 3 unit is designed for use in KS-19425 and KS-19580 indoor or outdoor telephone booths where ventilation is required. List 3 unit consists of the following basic items:

- B-555214-1 light fixture plate

- Two G.E. No. 8G3640 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
 - B-555208 impeller assembly.

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

2.08 List 3 unit is provided with terminals to be connected for continuous illumination or for

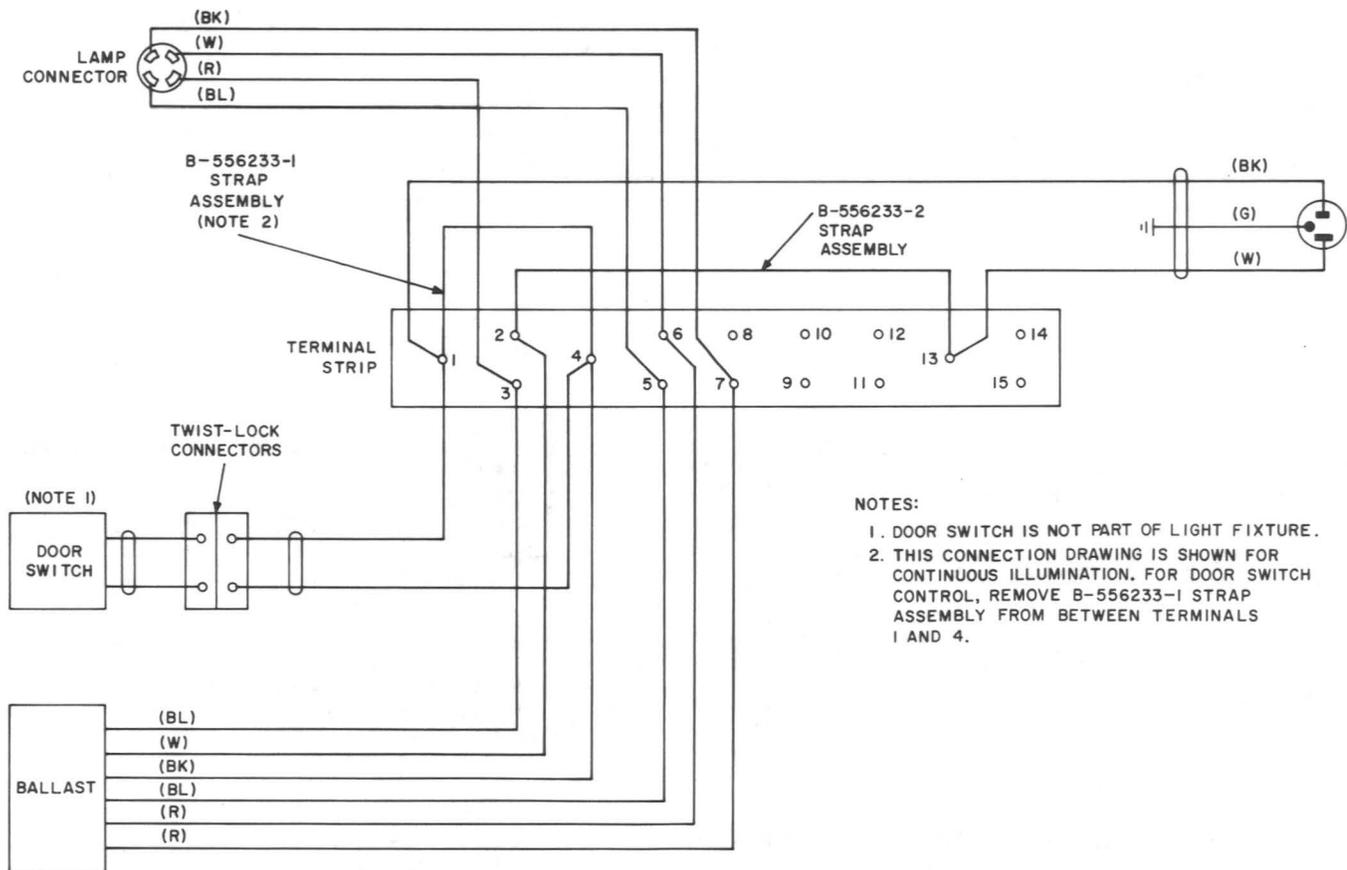


Fig. 3—Connections for List 2 Unit

automatic operation with a light control unit or door-operated switch (Fig. 5).

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

List 4 unit is designed for use in KS-14611 (MD) outdoor telephone booth as a replacement for B-185379 light fixture. List 4 unit consists of the following basic items:

- (a) B-555214-1 light fixture plate
- (b) Two G.E. No. 8G3640 rapid-start ballasts
- (c) B-555215 starting ring assembly (for mounting two lamps)
- (d) B-555679 terminal board assembly
- (e) Four B-555213 standoff assemblies.

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

2.11 **KS-19207, List 5 Blower:** List 5 blower is designed to be added to List 2 or List 7 light fixtures if it becomes necessary to ventilate a booth. This blower is also a replacement part for defective blowers in the field.

2.12 List 5 blower consists of the B-556232 motor assembly which consists of the following:

- (a) KS-19218, List 1 motor
- (b) B-555204 motor mount
- (c) B-555208 impeller assembly.

2.13 **KS-19207, List 6 Light Fixture:** List 6 unit is designed for use in KS-16797 (MD)

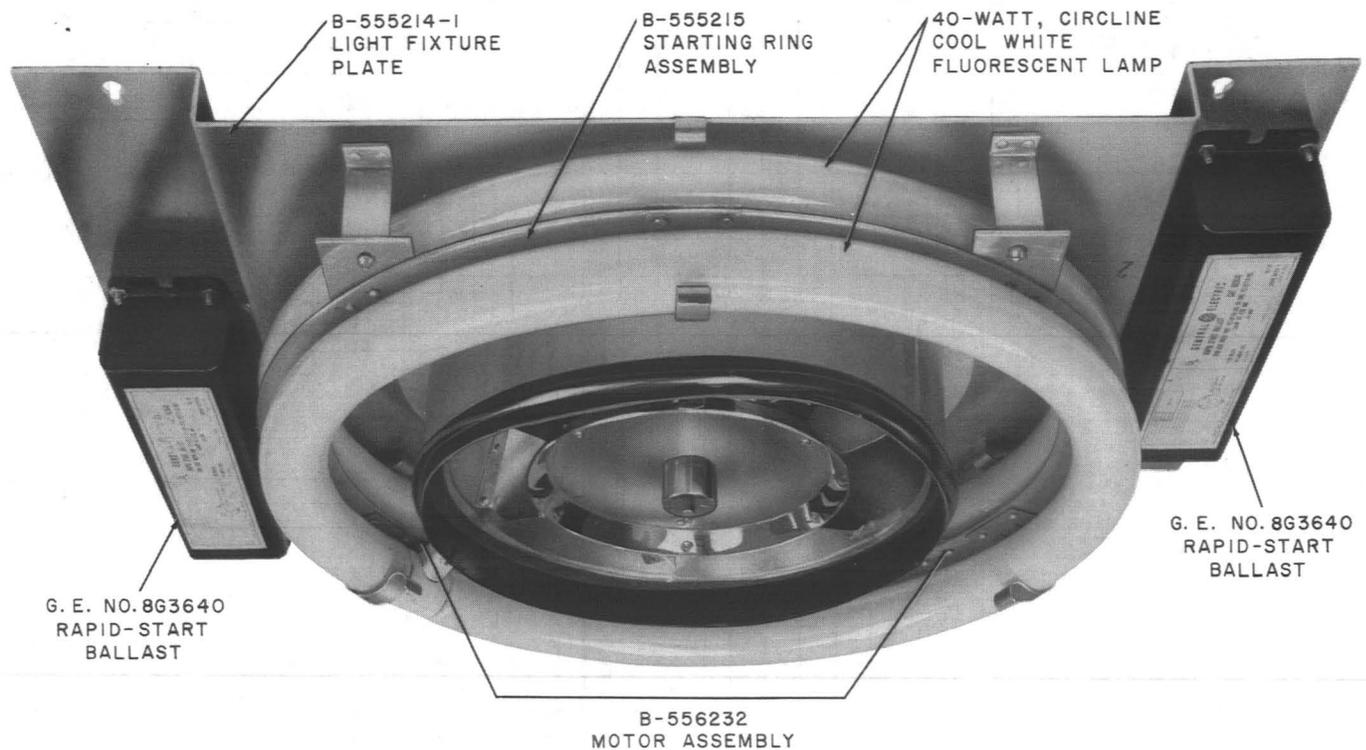


Fig. 4—KS-19207, List 3 Light and Blower Unit Plus Lamps

telephone booth as a replacement for B-185379 light fixture. List 6 consists of the following basic items:

- (a) B-555214-2 light fixture plate
- (b) Two G.E. No. 8G3640 rapid-start ballasts
- (c) B-555215 starting ring assembly (for mounting two lamps)
- (d) B-555679 terminal board assembly
- (e) Four B-555213 standoff assemblies.

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

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

2.15 *KS-19207, List 7 Light Fixture:* List 7 unit is designed for use in KS-19425, KS-19580,

and KS-21716 telephone booths where no ventilation is required. List 7 unit consists of the following basic items:

- (a) B-555214-1 light fixture plate
- (b) Two G.E. No. 8G3640 rapid-start ballasts
- (c) B-555215 starting ring assembly (for mounting two lamps)
- (d) B-555679 terminal board assembly.

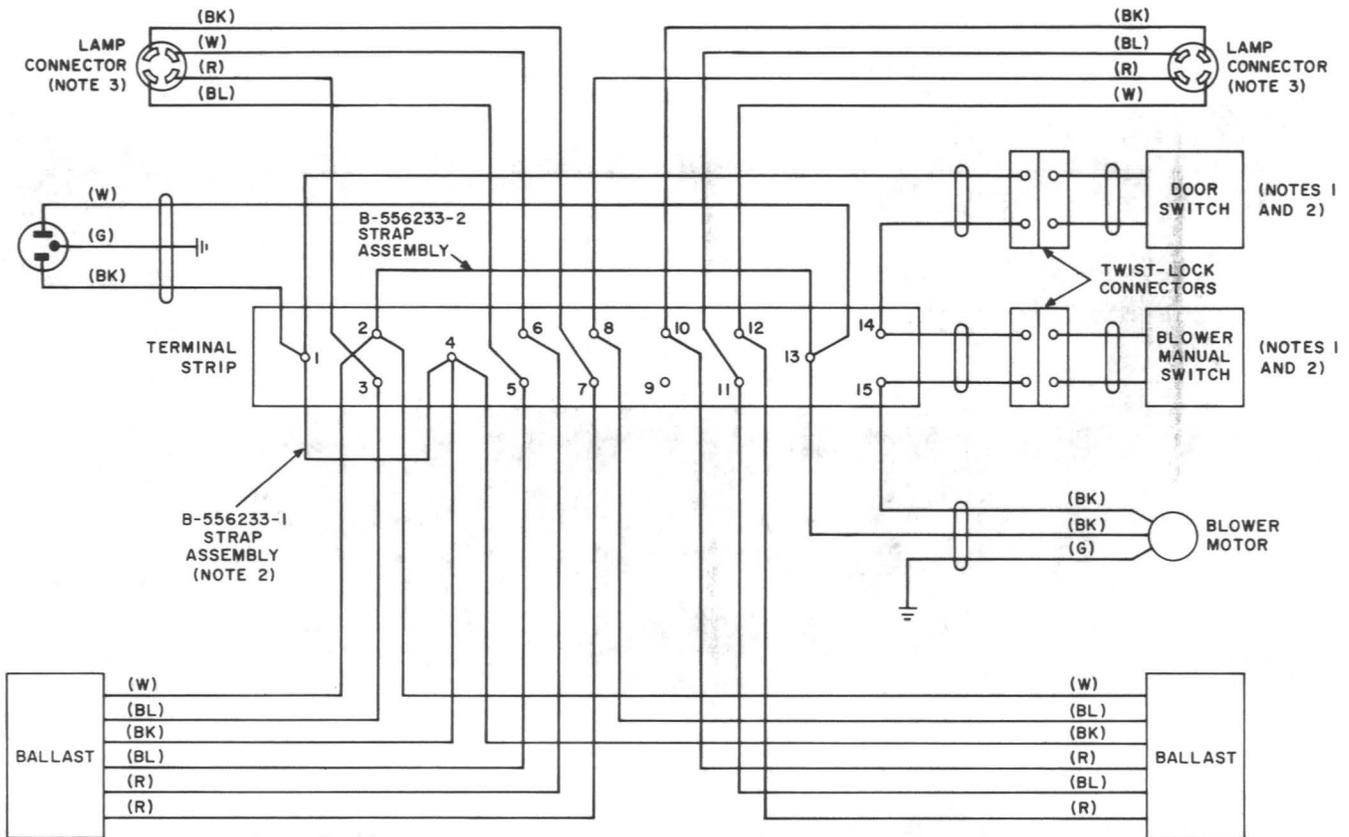
Note: List 7 unit is similar to List 4 (Fig. 6) except that List 7 unit is equipped with a B-556772 collar assembly.

2.16 See Fig. 8 for List 7 unit connections.

3. INSTALLATION



The KS-19207, List 4 and 6 light fixtures are replacement units for B-185379 light fixture and are designed for field installation in



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

KS-14611 (MD) and KS-16797 (MD) telephone booths, respectively.

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

- (1) Lower dome and remove the two lamps to a safe area.
- (2) Remove roof fasteners by reaching through dome opening in ceiling and remove roof.
- (3) Unplug light cord from electrical receptacle.
- (4) Loosen the four light fixture mounting screws (Fig. 9) and carefully lower the light fixture and place it in dome.
- (5) Remove and retain the cord plate screws (Fig. 9) and dispose of the light fixture in accordance with local regulations.
- (6) Remove and discard the light fixture mounting screws.

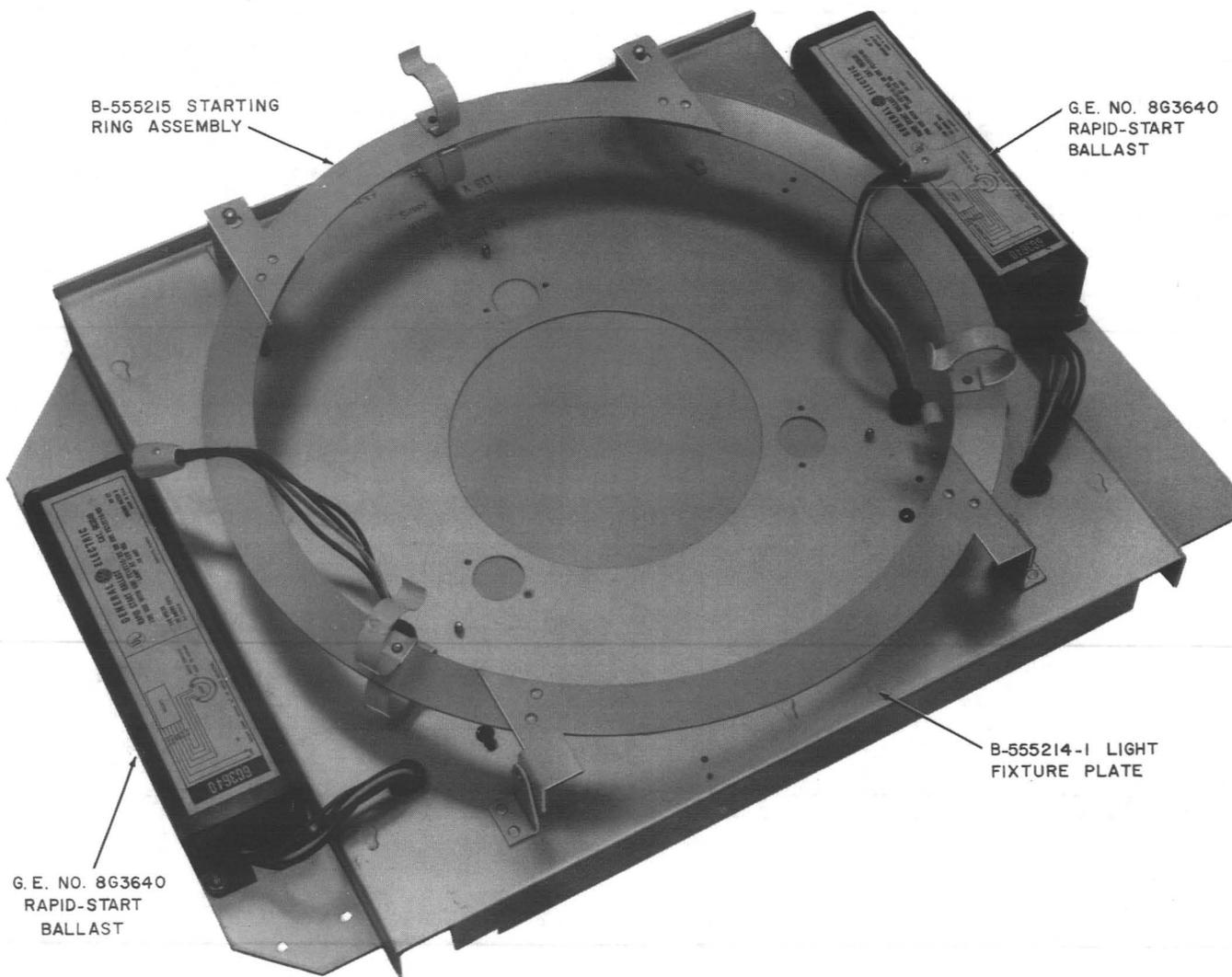


Fig. 6—KS-19207, List 4 Light Fixture

(7) Install four B-555213 standoffs (Fig. 10) (furnished with light fixture) in the holes vacated by the light fixture mounting screws.

(8) 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).

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

(10) 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 cord is as far toward front of booth as possible.

(11) Secure mounting plate to ceiling using the four screws retained in Step (5).

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

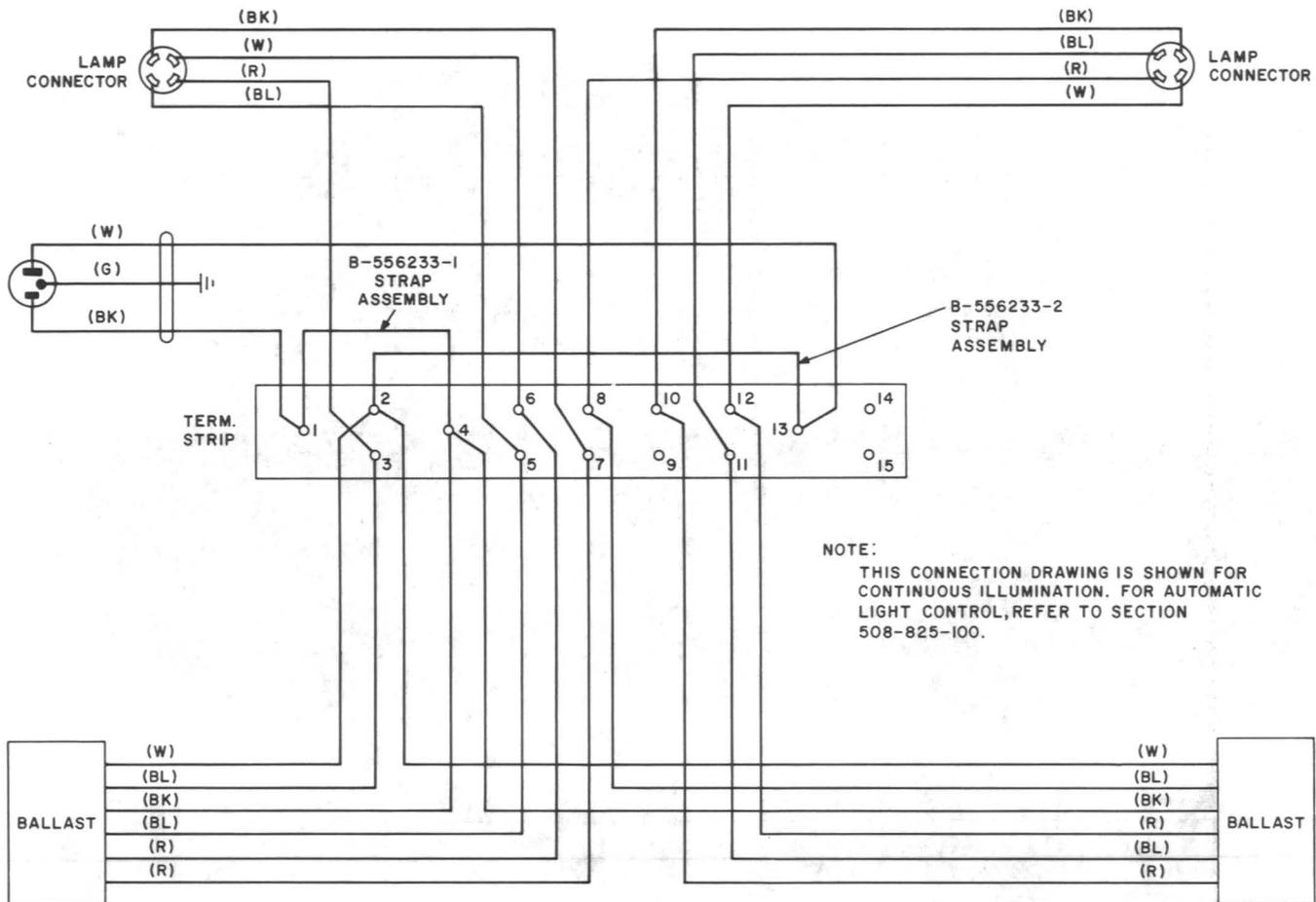


Fig. 7—Connections for List 4 or List 6 Unit

- (13) Install one of the lamps removed in Step (1) on starter ring assembly (Fig. 14).
- (14) Secure the starter ring assembly in its normal position and install the remaining lamp (Fig. 15).
- (15) Plug the light cord plug into the electrical receptacle and verify that lamps will illuminate.
- (16) Install and secure roof on booth.
- (17) Fasten dome assembly in its original position.

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

- (1) Perform the operations outlined in paragraph 3.01, Steps (1) through (7).

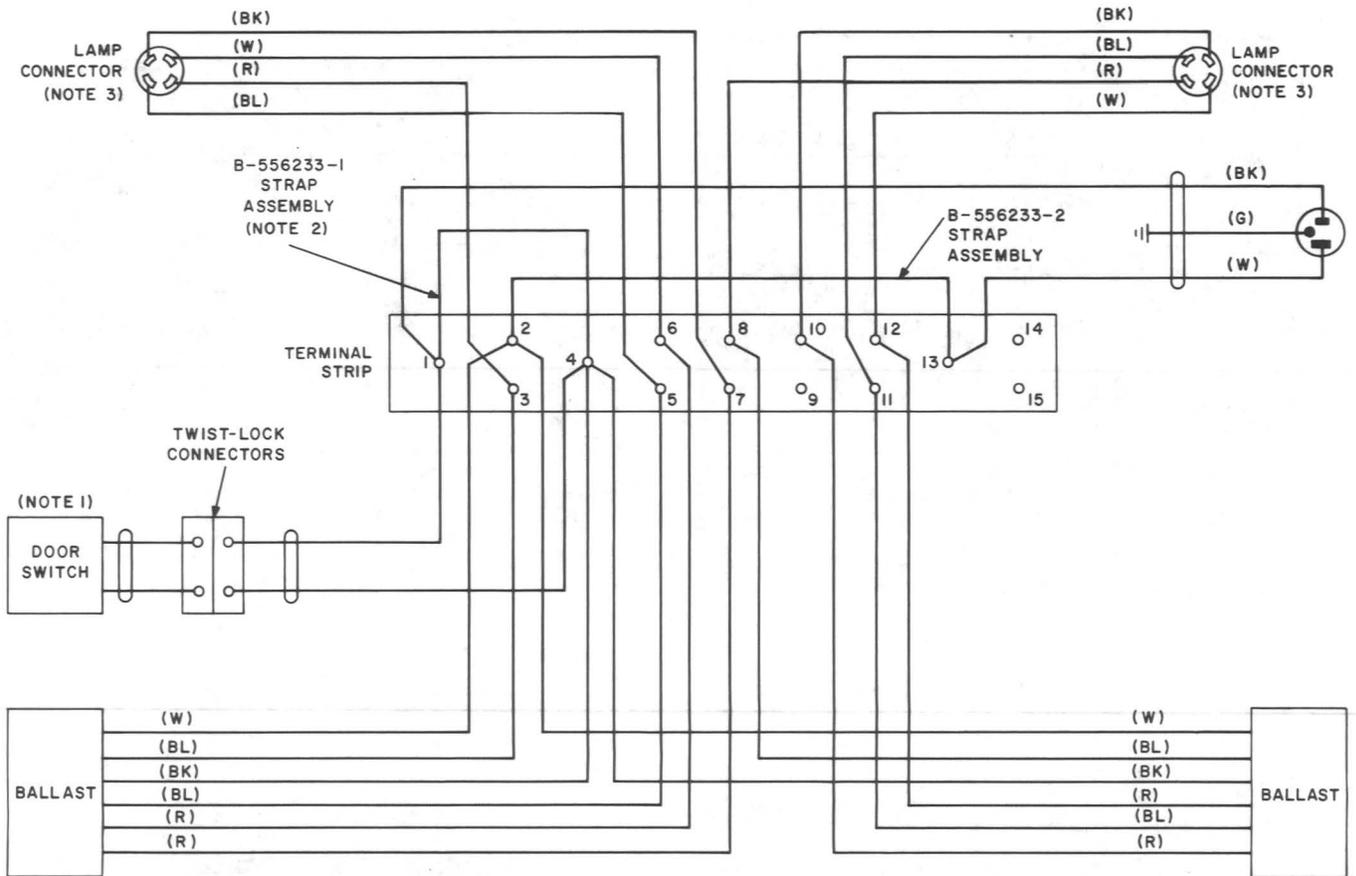
Caution: Check roof at protector location and determine that telephone line is not shorted or grounded to roof.

- (2) Move connecting block or protector (and sub-set if mounted on underside of ceiling) to top surface of ceiling. Relocate service wires as required.

- (3) Perform the operations outlined in paragraph 3.01, Steps (8) through (17).

4. MAINTENANCE

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



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

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

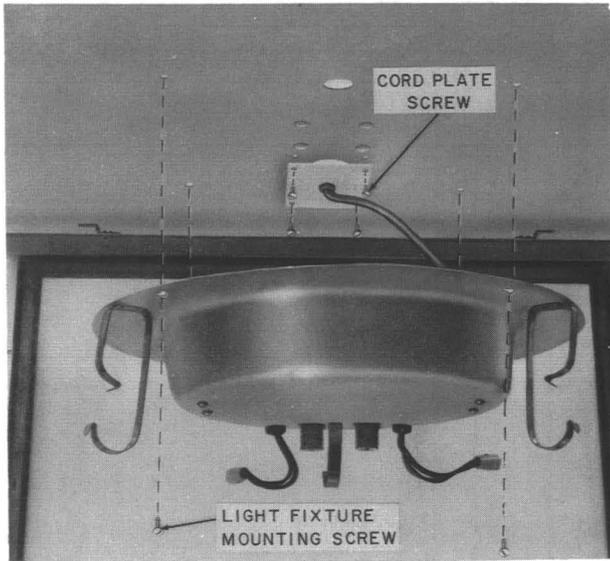


Fig. 9—Removal of B-185379 Light Fixture

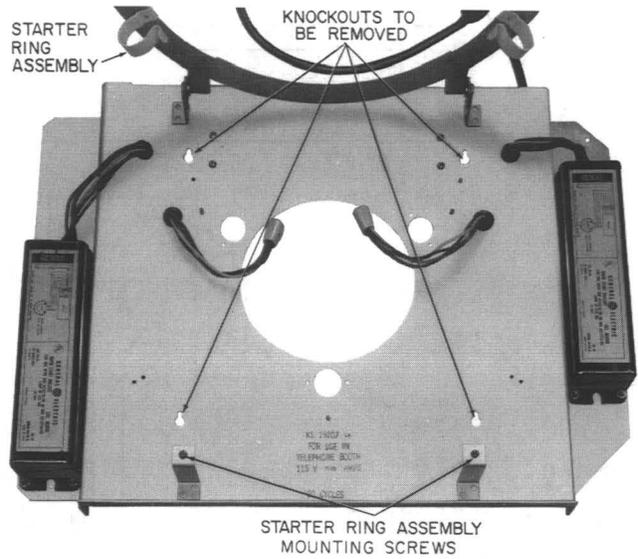


Fig. 11—KS-19207 Light Fixture With Starter Ring Assembly in Raised Position

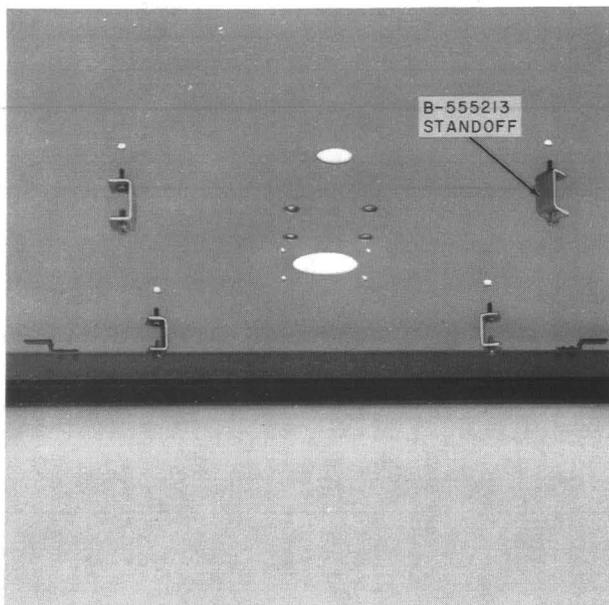


Fig. 10—Installation of B-555213 Standoffs

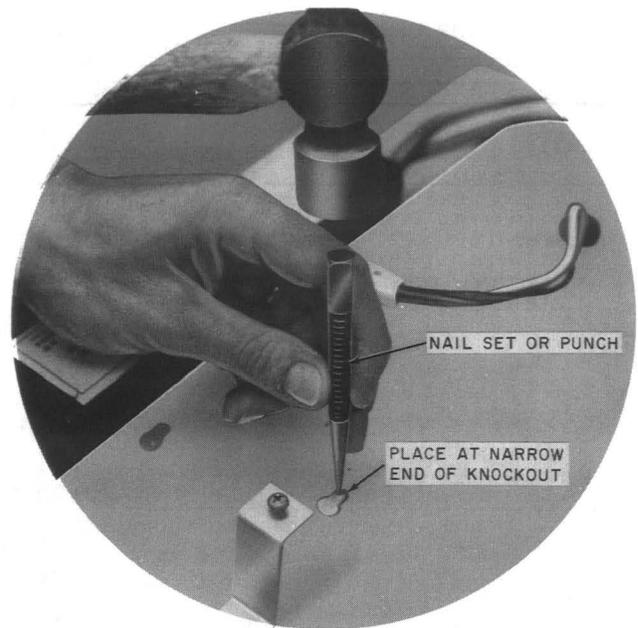


Fig. 12—Removing Knockout

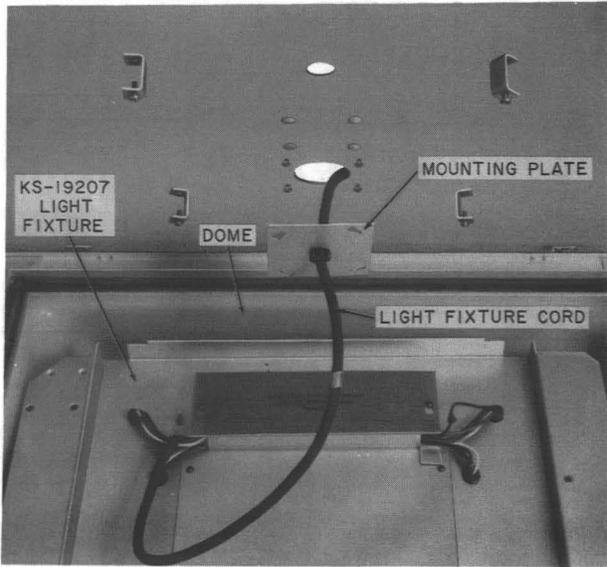


Fig. 13—Securing Mounting Plate to Ceiling

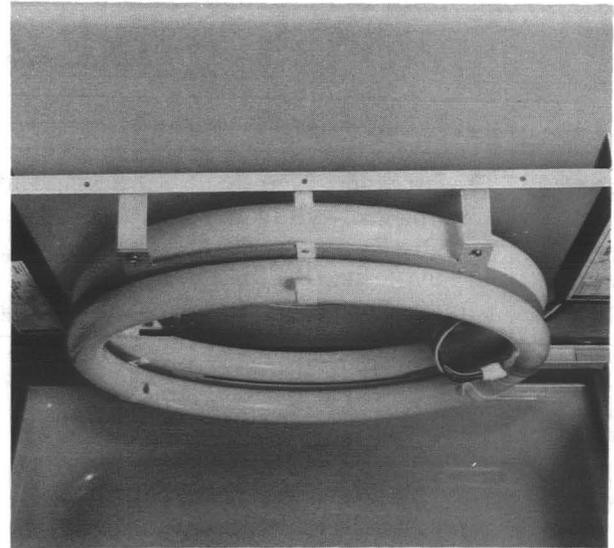


Fig. 15—Starter Ring Assembly Secured in Normal Position

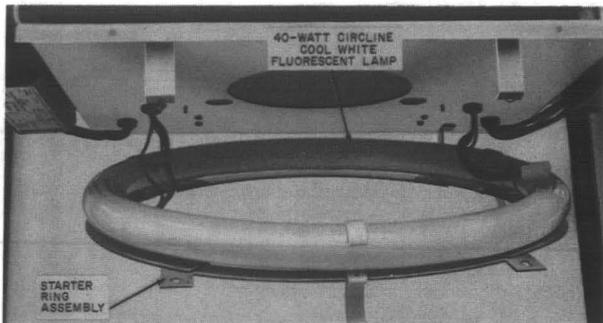


Fig. 14—Installing Lamp on Starter Ring Assembly

TABLE A
REPLACEMENT PARTS

ITEM	PART NO. OR DESCRIPTION	REMARKS
Lamp	40-watt fluorescent Circline cool-white	May be obtained locally through normal supply channels
Connector, lamp	16-inch leads (BL, BK, R, and W) equipped with Electric Terminal Co., No. DF-210-THB terminals	May be obtained from Heyman Manufacturing Corp., Kenilworth, NJ
Terminal	Kent No. 121179, Type R	To fasten all leads to terminal board
Ballast	G.E. No. 8G3640 equipped with 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