



4903 Audible/Visible and 4904 Visible Units Installation Instructions

Installation Procedure

Assemble Lens (If Required) – FLASHER UNITS ONLY

1. Attach the reflector (A) to the Flasher Printed Circuit (PC) Board (B) by lining up the reflector's cut-out (C) with the flash tube (D) and then pushing the reflector behind the tube. **DO NOT TOUCH FLASH TUBE WITH YOUR FINGERS.** See Figure 1.

NOTE: Make sure that the reflector cut-out's large slot lines up with the flash tube's two-wired lead end and the reflector's flanges face towards the flasher board's component surface.

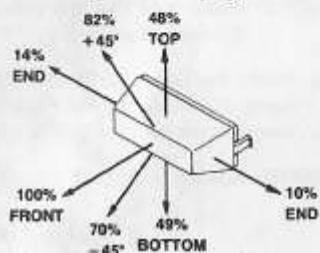
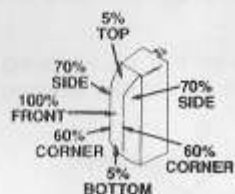
2. Insert the Flasher PC Board with reflector inside the lens (E) by placing the Flasher PC Board behind the lens' two bottom tabs (F) and then snapping the Flasher Board onto the top tab (G). See Figure 1.

NOTE: Make sure that the reflector is wrinkle-free and behind the flash tube.

PROCEED TO STEP 3 ON PAGE 4.

AMOUNT OF LIGHT (IN PERCENT) FOR LENS VIEWING ANGLES*

- A. Flasher Units 4904-9104 (Ceiling-Mount),
4904-9105 (Wall-Mount), and 4904-9106
(Ceiling or Wall-Mount) at 24VDC
- B. All Other Flasher
Units Listed in Flasher
Rating Chart on page 2.



*Alternate Lenses for 4903 Audible/Visible or 4904 Visible Flasher Units

- † 4905-9901 Ceiling Lens, Clear with "FIRE"
- † 4905-9902 Plain Clear Lens
- † Not for use with 4904-9104,
-9105, and -9106 Flasher Units

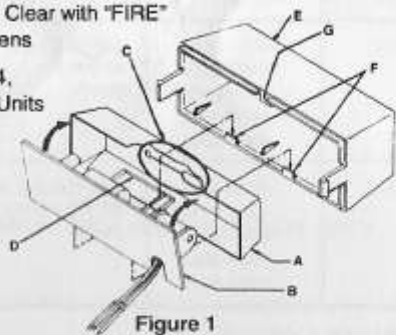


Figure 1
LENS ASSEMBLY – FLASHER UNITS ONLY

FLASHER RATING CHART

TYPE	PRODUCT ID	** EFFECTIVE INTENSITY	FLASH RATE	
24VDC FLASHER	4903-9101 4903-9104 4904-9101 4904-9102 4904-9103	4.75 CANDELA AT 24VDC 45mA	3.8 CANDELA AT 19.2VDC	45 PER MINUTE
	4904-9104 4904-9105 4904-9106	100 CANDELA AT 24VDC 88/200mA (NOM./PEAK)	—	1 PER SECOND
120VAC FLASHER	4903-9151 4903-9154 4904-9151 4904-9152 4904-9153	8.4 CANDELA AT 120V 60Hz 120mA	—	1 PER SECOND

** PER ULI 1638 STANDARD.

Installation Procedure

Assemble Lens (If Required) – INCANDESCENT UNITS ONLY

1. Attach the reflector (A) to the Lamp Printed Circuit (PC) Board (B) by lining up the reflector's cut-outs (C) with the lamps (D) and then pushing the reflector over the lamps. See Figure 2.

NOTE: Make sure that the reflector's flanges face towards the lamp board's component surface.

2. Insert the Lamp PC Board with reflector inside the lens (E) by placing the Lamp PC Board behind the lens' two bottom tabs (F) and then snapping the Lamp Board onto the top tab (G). See Figure 2.

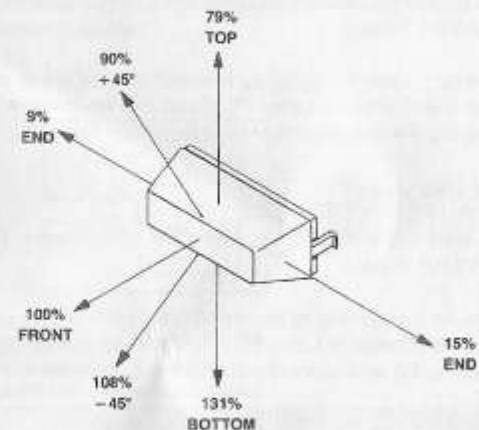
NOTE: Make sure that the reflector is wrinkle-free and over the lamps.

INCANDESCENT RATING CHART

TYPE	PRODUCT ID	** EFFECTIVE INTENSITY	
24VDC	4903-9001	0.5 CANDELA AT 24VDC 80mA	0.32 CANDELA AT 19.6VDC
	4903-9102		
	4904-9001		
	4904-9002		
	4904-9003		
120VAC	4903-9051	0.32 CANDELA AT 120V 60Hz 80mA	—
	4903-9152		
	4904-9051		
	4904-9052		
	4904-9053		

** PER ULI 1638 STANDARD.

AMOUNT OF LIGHT (IN PERCENT) FOR LENS VIEWING ANGLES (FOR PRODUCT ID NUMBERS IN THE INCANDESCENT RATING CHART ON PAGE 2)*



*Alternate Lenses for 4903 Audible/Visible or 4904 Visible Incandescent Units

† 4905-9904 Ceiling Lens, White with "FIRE"

† 4905-9905 Plain White Lens

† Not for use with 4904-9104, -9105, and -9106 Flasher Units

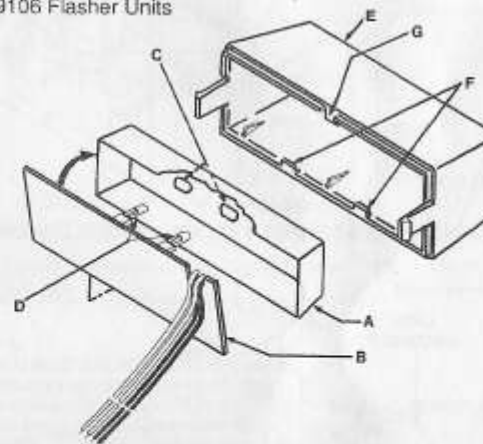


Figure 2
LENS ASSEMBLY – INCANDESCENT UNITS ONLY

Attach Lens Assembly to Audible/Visible or Visible Only Base

3. (4903 A/V only)

NOTE: The 4904-9104, 4904-9105, and 4904-9106 Flasher Units require a 4903-9501 Base.

A. Attach the lens assembly to the audible/visible base (H) by placing the four wires from the Flasher or Lamp PC Board into the wiring channel (J) and then snapping the lens assembly into place. See Figure 3.

(4904 Visible only)

NOTE: The 4904-9104, 4904-9105, and 4904-9106 Flasher Units require a 4904-9501 Base.

B. Attach the lens assembly to the visible only base (K) by placing the four wires from the Flasher or Lamp PC Board through the base cut-out (L) and then snapping the lens assembly into place. See Figure 4.

NOTE: To remove the lens assembly, push a small screwdriver into lens' notches (M) and pull lens assembly away from base. See Figure 3.

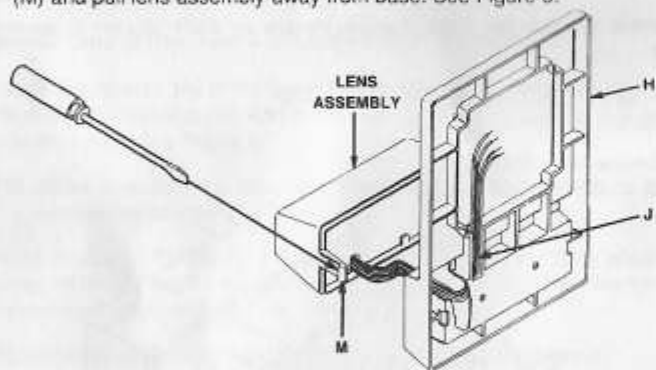


Figure 3

ATTACHING LENS ASSEMBLY TO 4903 AUDIBLE/VISIBLE

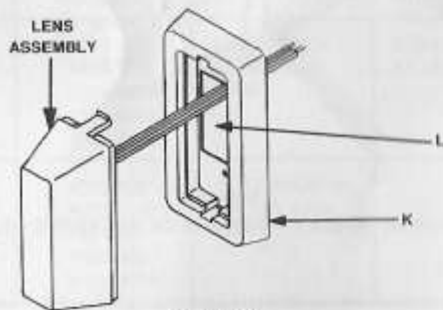


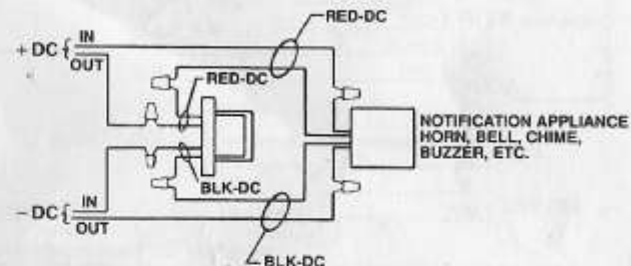
Figure 4

ATTACHING LENS ASSEMBLY TO 4904 VISIBLE ONLY

Mount Audible/Visible or Visible Only Assembly to Electrical Back Box

4. For flasher units only, connect wires as shown in Figure 5, 6, 7, 8, 9, 10, or 11.

For incandescent units only, connect wires as shown in Figure 12, 13, or 14 (for coded or non-coded systems).

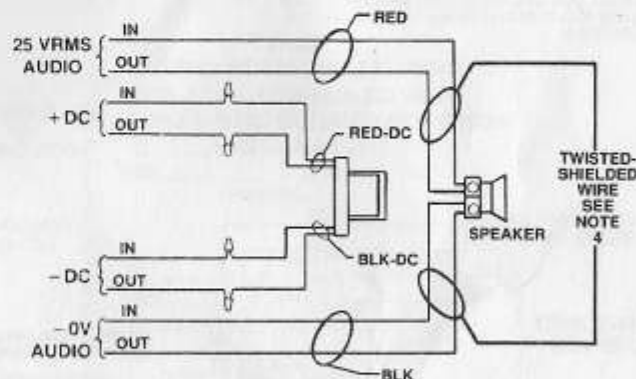


NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.

Figure 5

WIRING DIAGRAM FOR 4903-9101, -9104
OR 4904-9101, -9102, -9103 WITH NOTIFICATION APPLIANCE
(FLASHER 21-28VDC)

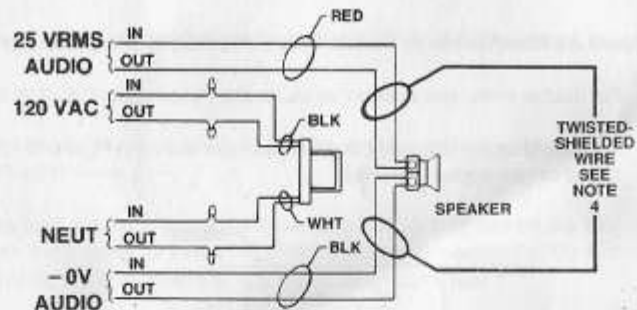


NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.
4. USE TWISTED-SHIELDED WIRE FOR ALL MAPNET®, PHONE, OR AUDIO WIRING RUN WITH FLASHER UNIT WIRING. FOR SYSTEM WIRING SPECIFICATIONS, SEE 900-035 FOR 2120 CONTROLS AND 900-082 FOR 4100 CONTROLS.

Figure 6

WIRING DIAGRAM FOR 4903-9101, -9104
OR 4904-9101, -9102, -9103 WITH SPEAKER
(FLASHER 21-28VDC)

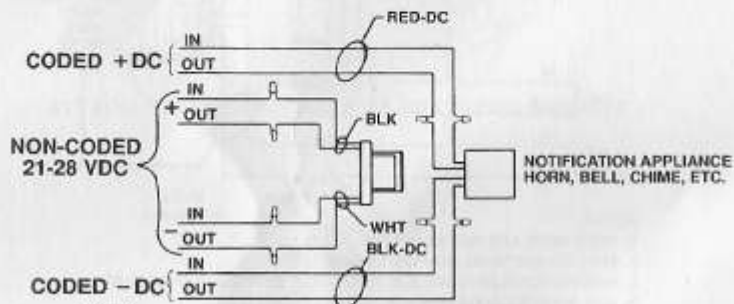


NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.
4. USE TWISTED-SHIELDED WIRE FOR ALL MAPNET[®], PHONE, OR AUDIO WIRING RUN WITH FLASHER UNIT WIRING. FOR SYSTEM WIRING SPECIFICATIONS, SEE 900-036 FOR 2120 CONTROLS AND 900-082 FOR 4100 CONTROLS.

Figure 7

WIRING DIAGRAM FOR 4903-9151, -9154 OR 4904-9151, -9152, -9153 WITH SPEAKER/NOTIFICATION APPLIANCE (FLASHER 120V)

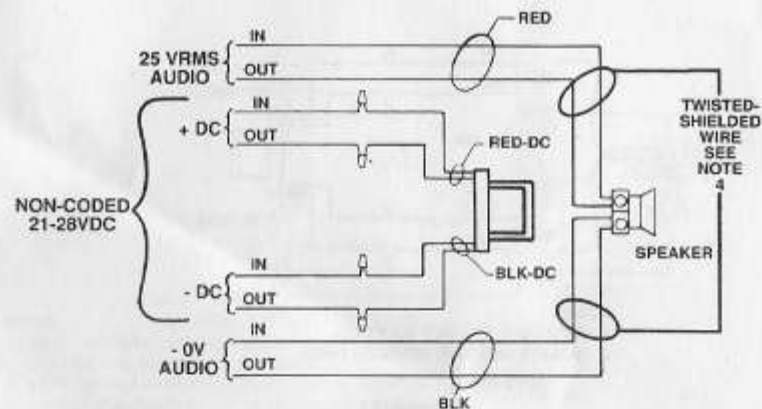


NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.

Figure 8

WIRING DIAGRAM FOR 4903-9101, -9104 OR 4904-9101, -9102, -9103 WITH NOTIFICATION APPLIANCE (FLASHER 21-28VDC)

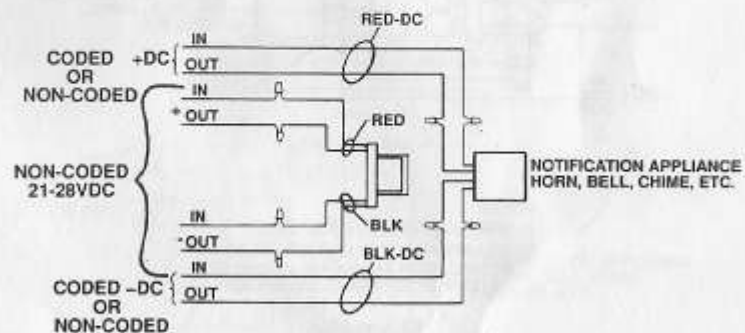


NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.
4. USE TWISTED-SHIELDED WIRE FOR ALL MAPNET[®], PHONE, OR AUDIO WIRING RUN WITH FLASHER UNIT WIRING. FOR SYSTEM WIRING SPECIFICATIONS, SEE 900-036 FOR 2120 CONTROLS AND 900-082 FOR 4100 CONTROLS.

Figure 9

WIRING DIAGRAM FOR 4904-9104, -9105, OR -9106 WITH 4903-9501 BASE AND SPEAKER (FLASHER 21-28VDC)

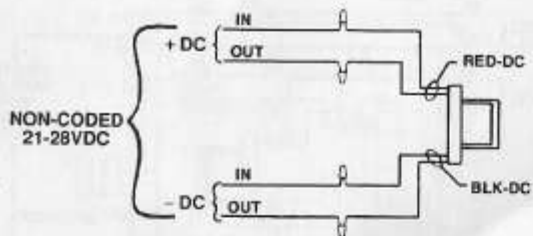


NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.

Figure 10

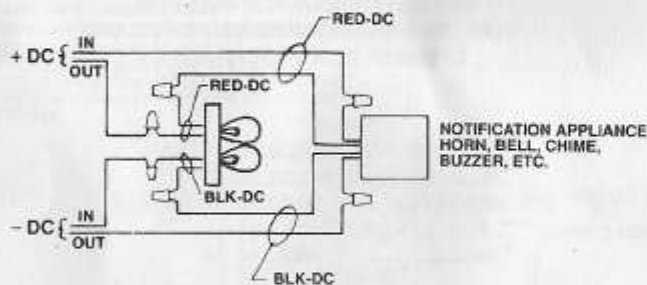
WIRING DIAGRAM FOR 4904-9104, -9105, OR -9106 WITH 4903-9501 BASE AND NOTIFICATION APPLIANCE (FLASHER 21-28VDC)



NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.

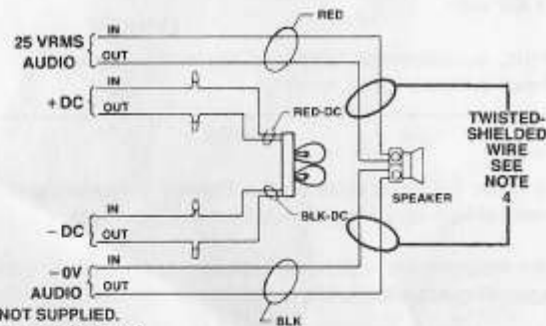
Figure 11
WIRING DIAGRAM FOR 4904-9104,
-9105, OR -9106 WITH 4904-9501 BASE
(FLASHER 21-28VDC)



NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE CIRCUIT IS RATED PER INDIVIDUAL NAMEPLATE.

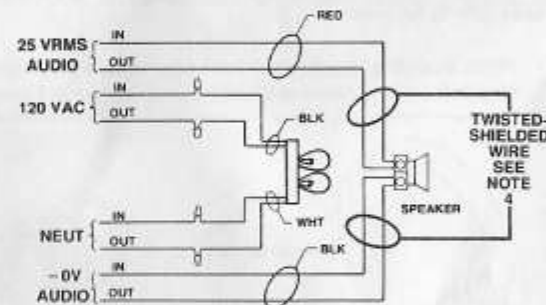
Figure 12
WIRING DIAGRAM FOR 4903-9001, -9102 OR
4904-9001, -9002, -9003 WITH NOTIFICATION APPLIANCE
(INCANDESCENT 21-28VDC)



NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.
4. USE TWISTED-SHIELDED WIRE FOR ALL MAPNET®, PHONE, OR AUDIO WIRING RUN WITH FLASHER UNIT WIRING. FOR SYSTEM WIRING SPECIFICATIONS, SEE 900-036 FOR 2120 CONTROLS AND 900-082 FOR 4100 CONTROLS.

Figure 13
WIRING DIAGRAM FOR 4903-9001, -9102
OR 4904-9001, -9002, -9003 WITH SPEAKER
(INCANDESCENT 21-28VDC)



NOTES:

1. WIRE NUTS ARE NOT SUPPLIED.
2. ISOLATE AND TAPE UNUSED LEADS.
3. NOTIFICATION APPLIANCE IS RATED PER INDIVIDUAL NAMEPLATE.
4. USE TWISTED-SHIELDED WIRE FOR ALL MAPNET®, PHONE, OR AUDIO WIRING RUN WITH FLASHER UNIT WIRING. FOR SYSTEM WIRING SPECIFICATIONS, SEE 900-036 FOR 2120 CONTROLS AND 900-082 FOR 4100 CONTROLS.

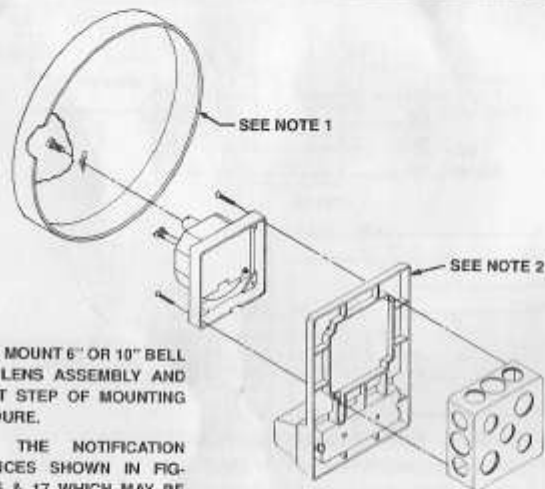
Figure 14
WIRING DIAGRAM FOR 4903-9051,
-9152 OR 4904-9051, -9052, -9053 WITH
SPEAKER/NOTIFICATION APPLIANCE
(INCANDESCENT 120V)

5. (4903 A/V only)

A. Mount audible/visible base and notification appliance to back box as shown in Figure 15, 16, or 17.

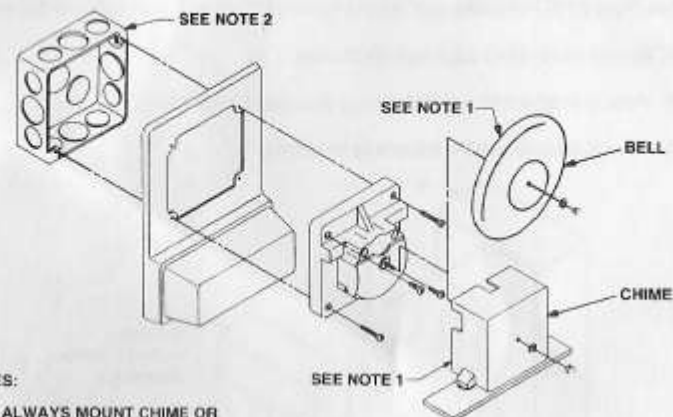
NOTES

1. See Figure 1 (Flasher Units Only) or Figure 2 (Incandescent Units Only) for amount of light seen from several lens viewing angles.
 2. When mounting the notification appliance to the audible/visible base (and the resulting assembly to the back box), complete the following steps:
 - a. Line up the notification appliance mounting holes with the audible/visible base holes.
 - b. Insert a 8-32 x 3" screw through a top hole of both the notification appliance and the audible/visible base and loosely fasten assembly to back box.
 - c. Insert another 8-32 x 3" screw through a bottom hole of both the notification appliance and the audible/visible base and securely fasten assembly to back box.
- When mounting assembly to back box, ensure that visible unit wires stay in the wiring channel of the base as shown in Figure 3.



1. ALWAYS MOUNT 6" OR 10" BELL ABOVE LENS ASSEMBLY AND AS LAST STEP OF MOUNTING PROCEDURE.
2. UNLIKE THE NOTIFICATION APPLIANCES SHOWN IN FIGURES 16 & 17 WHICH MAY BE MOUNTED ABOVE OR BELOW THE LENS ASSEMBLY, A 6-INCH OR 10-INCH BELL MUST BE MOUNTED ABOVE THE LENS ASSEMBLY.

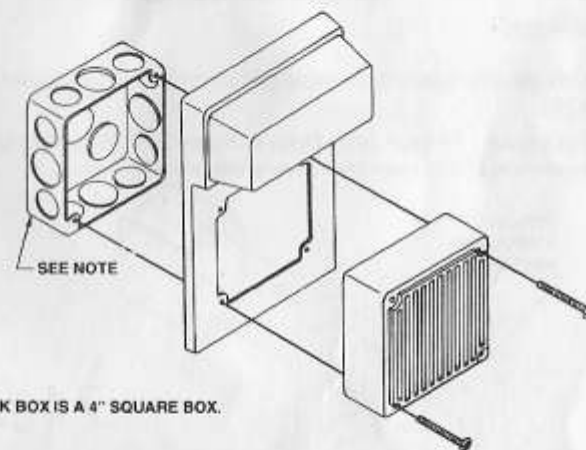
Figure 15
MOUNTING 6" OR 10" BELL TO 4903 AUDIBLE/VISIBLE



NOTES:

1. ALWAYS MOUNT CHIME OR 4" BELL AS LAST STEP OF MOUNTING PROCEDURE.
2. BACK BOX IS A 4" SQUARE BOX.

Figure 16
MOUNTING 4" BELL OR CHIME TO 4903 AUDIBLE/VISIBLE



NOTE: BACK BOX IS A 4" SQUARE BOX.

Figure 17
MOUNTING HORN, SPEAKER, OR BUZZER TO 4903 AUDIBLE/VISIBLE

- (See Figure 18) For surface or retrofit mounting, follow the procedure below:

1. Mount 2975-9145 back box (N) to wall.
2. Attach 4905-9903 retrofit/surface mounting plate (P) to back box (N).
3. Mount audible/visible assembly to plate (P).

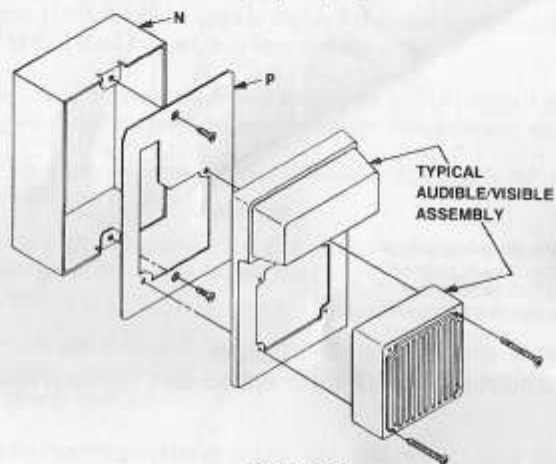


Figure 18
RETROFIT OR SURFACE MOUNTING
FOR 4903 AUDIBLE/VISIBLE

(4904 Visible only)

- B. Mount visible only assembly to single-gang back box (Q) as shown in Figure 19)

NOTE: See Figure 1 (Flasher Units Only) or Figure 2 (Incandescent Units Only) for amount of light seen from several lens viewing angles.

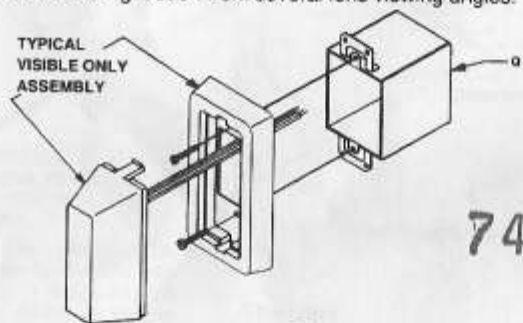


Figure 19
ATTACHING VISIBLE ONLY ASSEMBLY
TO SINGLE-GANG BACK BOX

748209