

Fire Alarm Station Operation

Single Action Stations 2099-9101, -9102, -9754, -9755 – Figure 1

Pulling the handle down firmly to break the rod (visible below the handle) causes the sounding of an alarm and the actuation of annunciator contacts (if provided). The front of the station must be unlocked and opened to reset the handle before the fire alarm system can be returned to normal. Replace the rod as shown in mounting drawing (see Figure 7).

Single Action Station with Pre-signal Alarm 2099-9107 – Figure 1

Pulling the handle down firmly to break the rod (visible below the handle) causes the sounding of a pre-signal alarm, actuates the annunciator contacts (if provided), and exposes the general alarm key switch. Insert and turn the proper key to sound a general alarm. The front of the station must be unlocked and opened to reset the handle before the fire alarm system can be returned to normal. Replace the rod as shown in mounting drawing (see Figure 7).

Signal Action Station with Institutional Cover 2099-9762 – Figure 2

Unlocking and opening the station causes the sounding of a general alarm. The station must be closed and locked before the fire alarm system can be returned to normal.

Double Action Stations (Break Glass) 2099-9103, -9104, -9105 – Figure 3

Breaking the glass with the hammer and pulling the handle down firmly to break the rod (visible below the handle) causes the sounding of an alarm and the actuation of annunciator contacts (if provided). The front of the station must be unlocked and opened to reset the handle before the fire alarm system can be returned to normal. Replace the glass plate as shown in the replacement drawing (see Figure 5) and replace the rod as shown in the mounting drawing (see Figure 7).

Double Action Station with Pre-signal Alarm (Break Glass) 2099-9108 – Figure 3

Breaking the glass with the hammer and pulling the handle down firmly to break the rod (visible below the handle) causes the sounding of a pre-signal alarm, actuates the annunciator contacts (if provided), and exposes the general alarm key switch. Insert and turn the proper key to sound a general alarm. The front of the station must be unlocked and opened to reset the handle before the fire alarm system can be returned to normal. Replace the glass plate (see Figure 5) as shown in the replacement drawing and replace the rod as shown in the mounting drawing (see Figure 7).

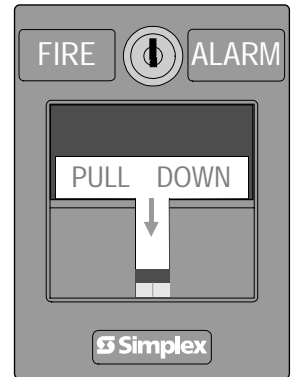
Double Action Station (Push Type) 2099-9756, -9757, -9758 – Figure 4

Pushing on the push bar and then pulling the handle down firmly to break the rod (visible below the handle) causes the sounding of an alarm and the actuation of annunciator contacts (if provided). The front of the station must be unlocked and opened to reset the handle before the fire alarm system can be returned to normal. Replace the rod as shown in mounting drawing (see Figure 7).

Double Action Station with Pre-signal Alarm (Push Type) 2099-9759 – Figure 4

Pushing on the push bar and then pulling the handle down firmly to break the rod (visible below the handle) causes the sounding of a pre-signal alarm, actuates the annunciator contacts (if provided), and exposes the general alarm key switch. Insert and turn the proper key to sound a general alarm. The front of the station must be unlocked and opened to reset the handle before the fire alarm system can be returned to normal. Replace the rod as shown in mounting drawing (see Figure 7).

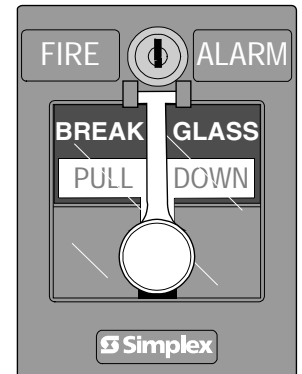
Note: (On all 2099 Stations)
Once installed, unlocking and opening the front of the station causes an alarm.



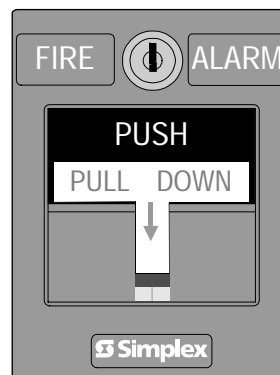
Single Action Station
Figure 1.



Single Action Station with
Institutional Cover
Figure 2.



Double Action Station
Break Glass
Figure 3.



Double Action Station
Push Type
Figure 4.

Testing

Notify local authorities and operate station as in an actual alarm station. After testing, replace rod (and glass plate on glass double action units), reset the station, and restore the control panel.

Replacement of Glass on Double Action Break Glass Type – Figure 5

1. Swing Hammer (A) away from front of pull station.
2. Fit glass retainer (B) onto bottom of glass plate (C). Then fit top of glass plate behind tab.
3. Slide glass retainer (B) into station until it snaps into place.
4. Gently return hammer (A) to its normal position.

Application

The National Fire Protection Association (NFPA), Bulletin number 72, gives specific minimum requirements on this subject. When manual station coverage appears limited in any way, additional units should be installed. Stations should be mounted with the bottom of the station not less than 3-1/2 ft. (1.07M) or more than 5 feet (1.52M) from the floor. Usually stations are mounted at the 4-1/2 ft. (1.4M) level.

In order to make building and facilities accessible to, and usable by the physically handicapped, some specifications may require that the station be installed not more than 3-1/2 ft. (1.07M) from the floor.

Stations should be located in the normal path of exit, and distributed in the protected area so that they are unobstructed and readily accessible.

Stations should be provided on each floor to obtain a travel distance of not more than 200 feet (60.96M) to the nearest station from any point in the building. One station should be provided for each floor where the maximum floor area is 10,000 square feet (929 sq. meters) or more. One station should be provided on the first floor and on each succeeding alternate floor if the areas to be protected are smaller than the limits as described above.

Mounting

For semi-flush mounting (Figures 6 and 8), use a standard 4" (10.16cm) square outlet box with a minimum depth of 2-1/8" (5.39cm) fitted with a 3/4" (1.9cm) deep single gang switch cover set flush (DO NOT RECESS) or protruding 1/16" (.16cm) from the wall surface.

Exception: The 2099-9103, -9754, -9755, -9756, or -9762 can be semi-flush mounted by using a standard single gang switch box 3" x 2" (7.62cm x 5.08cm) with a minimum depth of 2-1/2" (3.65cm) with conduit KO's, set flush (DO NOT RECESS) or protruding 1/16" (.16cm) from the wall surface.

For surface mounting (Figures 7 and 8), use a 2975-9178 red steel back box or a 2975-9022 aluminum back box. Do not substitute a box with a depth less than 2-3/16" (5.55cm).

Exception: The 2099-9103, -9754, -9755, -9756, or -9762 can be surface mounted by using a wiremold box no. B-3 (formerly A-3).

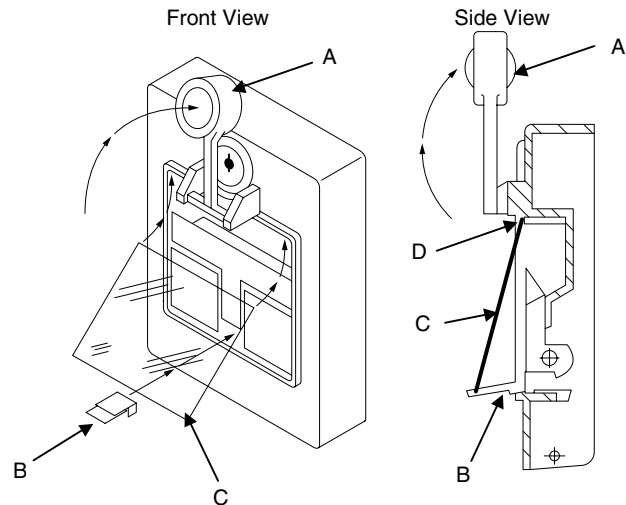


Figure 5. Double Action Station Glass Plate Replacement

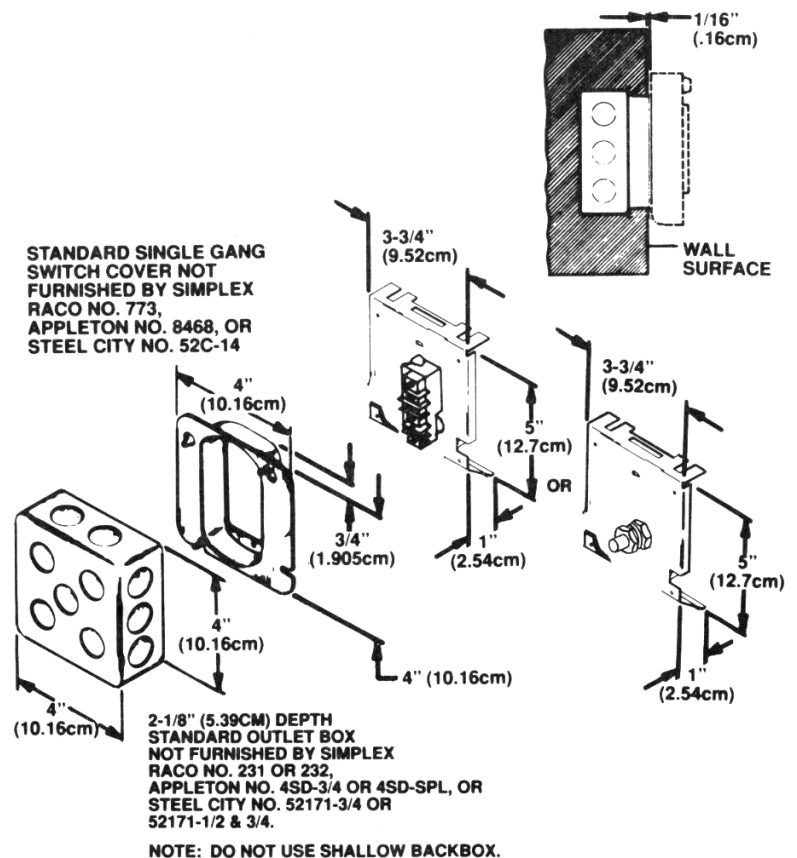


Figure 6. Semi-Flush Station Mounting

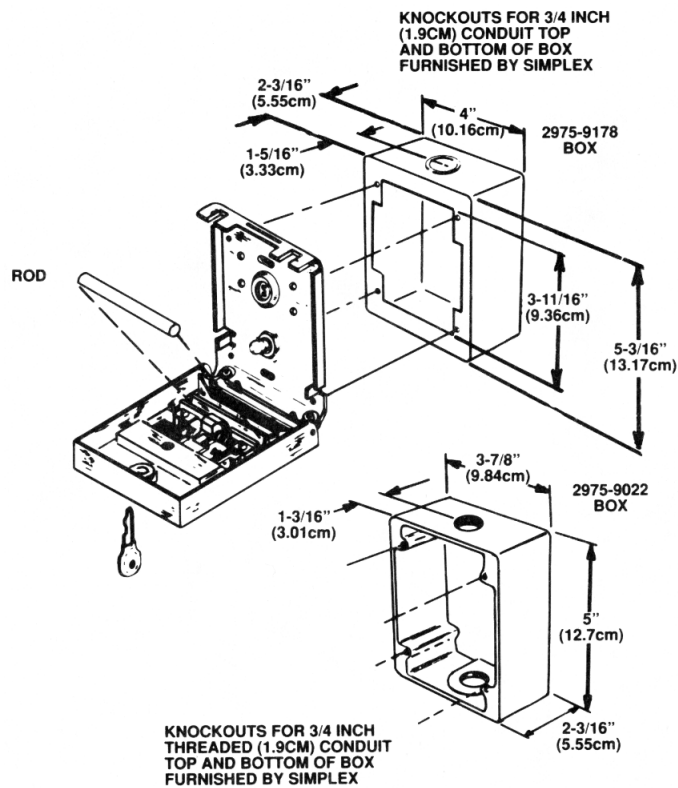


Figure 7. Surface Station Mounting

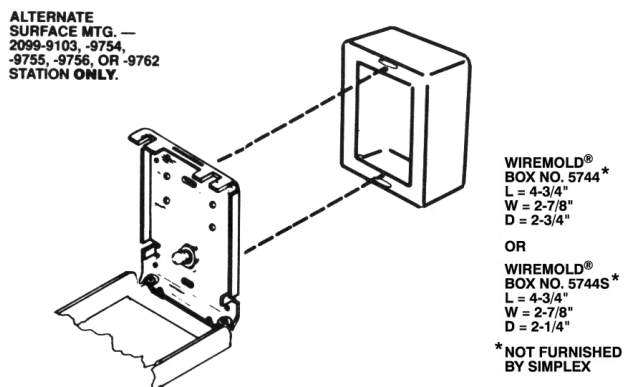
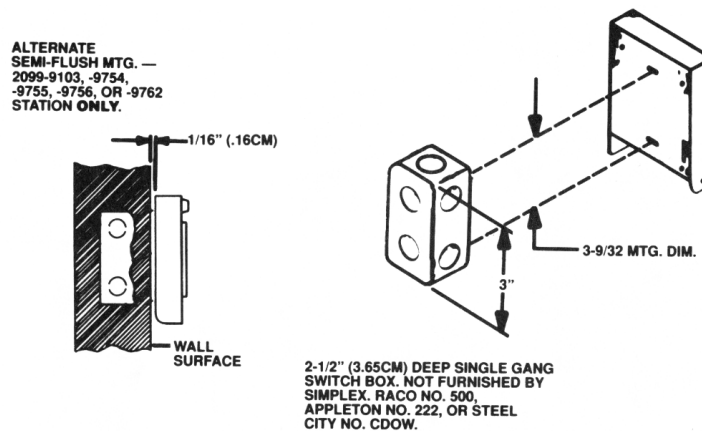
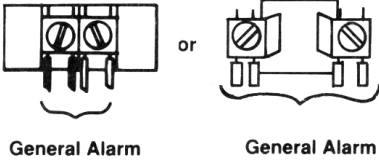
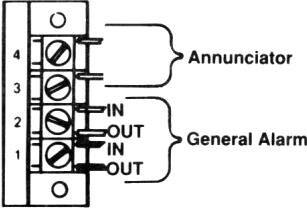
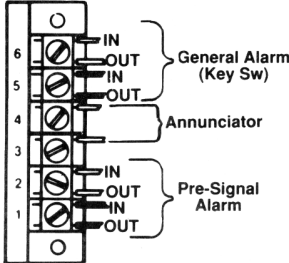


Figure 8. Alternate Semi-Flush and Surface Station Mounting

Wiring

Use No. 18 AWG minimum, No. 14 AWG maximum (Terminal Specification).

Caution: For System supervision, do not use looped wire under terminals. Break wire run to provide supervision of connections.

Station Type	Terminal Connections
2099-9103 2099-9754 2099-9755 2099-9756 2099-9762	
2099-9101 2099-9102 2099-9104 2099-9105 2099-9757 2099-9758	
2099-9107 2099-9108 2099-9759	

Features and Contact Arrangements

PRODUCT ID	SINGLE ACTION	GLASS DOUBLE ACTION	PUSH DOUBLE ACTION	PRE-SIGNAL	GEN. ALARM	ANUNN	LOCAL COVER (A)	INST. COVER (B)
2099-9101	X				NO	NO		
2099-9102	X				NO	NC		
2099-9103		X			NO			
2099-9104		X			NO	NO		
2099-9105		X			NO	NC		
2099-9107	X			NO	NO	NO		
2099-9108		X		NO	NO	NO		
2099-9754	X				NO			
2099-9755	X				NO		X	
2099-9756			X		NO			
2099-9757			X		NO	NO		
2099-9758			X		NO	NC		
2099-9759			X	NO	NO	NO		
2099-9762	X				NO			X

English Version Units

NO = Normally open contact (closed on Alarm)

NC = Normally closed contact (open on Alarm)

(A) = Cover marking "Local"

(B) = Institutional cover marking "Key Operated only"