

INSTRUCTION/INSTALLATION SHEET

SERVICE CENTER ENCLOSURES-VALUE LINE

IS-0081 REV.C

1. Introduction

On-Q Home Service Center Enclosures (see *Figure 1*) centralize and protect components used to distribute telephone, data, media services, audio, security and control, and other low voltage wiring used throughout the house. The enclosure mounts onto a wall (surface mounting) or between the studs of a framed opening (recessed mounting) and is designed to accept various On-Q Home modules after installation. The On-Q Home Service Center Enclosures are UL listed as Communication Circuit Accessories. There are two (2) sizes of Value Line Enclosures; 12" (1267077) and 24" (364257).

2. Description

The Service Center Enclosures include a gray powder coated steel cabinet with separate white powder coated cover. The covers all have a beveled overhang to cover the rough drywall opening when recess mounted. All cover mounting hardware is included. The cabinet has a factory installed ground lug. Enclosures include a label for recording cable-wiring information. *Figure 1 provides an example view of a 12" Enclosure.* The covers for the Value Line Enclosures without covers (-11 part numbers), are shipped after installation.

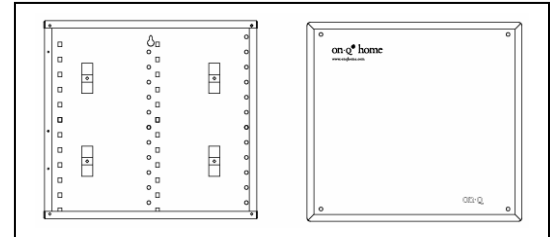


Figure 1

3. Installation

A. Locating - The temperature of the enclosure location should not go below 0°C (32°F) or above 50°C (122°F). The enclosure should not be exposed to humidity levels which will readily condense on the enclosure or modules. Locate the service center to allow reasonable access. Although routine service is generally not required, the service center should be reasonably accessible for service and potential upgrade. A central location within the house is preferable to allow the cable drops to be balanced in length. The service center should be located within 4 feet of a 110 VAC outlet for powering the amplifiers and cameras. (Multiple outlets may be required depending on planned applications). A UL listed outlet may be located in the enclosure using the outlet knockout in the bottom of the enclosure.

CAUTION: For any limitations on Service Center Locations, consult local electrical and building codes before installing service Center Enclosures.

NOTE: The enclosure is not weather proof and should not be located outside, or where temperature changes and humidity may allow condensation in the enclosure.

NOTE: The Enclosure is not fire rated and should not be mounted in fire rated walls.

B. Mounting - The enclosure may either be surface mounted or recess mounted.

1) Surface Mount - Typical surface mount is on a 3/4 inch plywood back board.

a. Securely mount plywood such that enclosure can be attached with access knockouts accessible.

b. Position enclosure in desired location and mark top of center keyhole opening located on the top center of enclosure.

c. Install mounting wood screw at mark. Do not fully tighten.

d. Hang enclosure on screw and mark four (4) mounting holes and wire access holes on plywood. Also mark top and bottom of enclosure.

e. If desired, install bushings in wire access holes. Note: Enclosure Bushing Kit (P/N 364232-01) is available for Value Line enclosures. Plug Kit (P/N 364232-02) is available to close unused holes.

f. Attach enclosure to wall using wood screws. Remove the top centering screw to avoid interference with modules.

2) Recess Mount - Assumes 2 by 4 or larger studs on 16 inch centers (14 1/4 inches).

a. Position the enclosure between the studs, with the front of the enclosure protruding forward so it will approximately match the finished wall. For example, if the wall is to be finished with 1/2 inch drywall, then the enclosure should extend 1/2 inch beyond the stud. Drywall thickness indicators are located on both sides of the enclosure at 1/2, 5/8 and 3/4 of an inch. Hold the enclosure in position and mark the center of the four (4) mounting slots (two on either side of the enclosure) on the studs or framing.

b. Set the enclosure down and drill pilot holes for the four (4) mounting screws.

c. Re-position the enclosure and secure with screws.

d. If desired, install bushings in wire access holes. **Note: Enclosure Bushing Kit (P/N 364232-01) is available for Value Line enclosures. Plug Kit (P/N 364232-02) is available to close unused holes**

4. Cable Rough-In

All applications and cabling to and from the enclosure are low voltage class 2 or communication cables. All code and good wiring practices should be maintained, such as maintaining separation from power and using proper cable retention. The section describes rough-in at the enclosure.

A. Telephone Rough-In

1) Install Category cable (depending on application) from the enclosure to the telephone company network interface device (NID). Route the cable through one of the two upper left access holes with approximately three feet of excess. Label cable near entry to the enclosure and at outlet location.

2) Install Category cable (depending on application) from the enclosure to each of the outlet locations. Route the cable through one of the two upper left access holes with approximately three feet of excess. Label cable near entry to the enclosure and at outlet location.

3) Position and secure cables to comply with codes and good wiring practices to ensure cables are not damaged during construction.

B. Coax Rough-In

1) Install Quad Shield RG6 cable (P/N 364511-01) from the enclosure to the outlet locations. Route the cable through either of the two upper right access holes with approximately three feet of excess. Label cable near entry to the enclosure and at outlet location.

2) Install two Quad Shield RG6 cables (P/N 364511-01) from the enclosure to the planned dish antenna location. Route the cables through one of the two upper right access holes with approximately three feet of excess. Label cables near entry to the enclosure and antenna location.

3) Install Quad Shield RG6 cable (P/N 364511-01) from the enclosure to the media center input, camera and video outlets. Route the cable through one of the two upper right access holes with approximately three feet of excess. Label cable near entry to the enclosure and outlet location.

4) Position and secure cables to comply with codes and good wiring practices to ensure cables are not damaged during construction.

C. Other Cable Rough-In

1) For local area network (LAN) and other data connections, install Category 5E (P/N 364510-01) cable from the service center to the desired outlets.

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- 2) For Audio and other low voltage applications, install appropriate cable per the application instructions.
- D. Enclosure Ground Cable - *Figure 2*
The ground cable is to be routed from the service center to the house electrical ground. The ground screw is located inside the bottom of the enclosure.

- E. Duplex Receptacle - *Figure 3*
(Rough-In)
1) Remove knockout metal on bottom right of enclosure.
2) Install UL listed metal receptacle box using sheet metal screws.
3) Route NM cable to receptacle box and secure.
(Finish)
1) Connect UL listed duplex receptacle, rated 125 VAC, and secure to Metal receptacle box.
2) Install duplex receptacle cover plate.

5. Value Cover Installation (After finish): See *Figure 4*

- A. For flush mount, adjust enclosure position, if necessary, by loosening screws inside mounting slots; then re-tighten screws. Lock in position by installing a screw in the holes above and below the slot.
- B. Attach cable layout label to inside cover and record wiring layout information.
- C. Align and insert bracket at the top of center of over with the opening in the top rim of enclosure. Hang the cover. The cover should hang freely and fit up against the enclosure; if not, check to see if cables are outside the enclosure or check to see if cables are being pinched.
- D. Install four (4) cover screws with star washers into the four corners of the cover.
- NOTE: The screws and lock washers must be installed to ensure the cover is electrically grounded to the enclosure. See *Figure 5***

