

## **APPROACH SYSTEM INSTALLATION INSTRUCTIONS**

### **Parts Included:**

- 1 lift mechanism assembly
- 1 safety platen
- 1 drive shaft concealment

### **Other Items Needed:**

- Phillips Head & Flathead Screwdriver
- Level
- Tape Measure
- Stud Finder

### **Pre-assembly Considerations**

1-The ADAS Approach for the Cabinet is designed for installation in both new construction and in renovation situations. The system is designed to move standard dimension Face Frame or European style cabinets through 20" of vertical movement.

2-The entire lift mechanism is concealed behind the cabinet, and will make the cabinet case protrude 4" from the wall. If soffit details are included in the kitchen, the soffit above the Approach for the Cabinet should be set at 16-1/4" from the wall.

3-Allow a minimum of 1/8" of clearance on each side of the moving cabinet.

4-The Approach for the Cabinet must plug into a GFCI 110 V outlet, which ideally is located in the top right quadrant behind the cabinet as you are facing the wall. The GFCI outlet placement must not be lower than 17" below the top of the cabinet or soffit.

5-The Approach for the Cabinet must mount to at least two wall studs for correct mounting. In some instances, it may be necessary to install 2" x 4" horizontal blocks between studs. If blocking is necessary, install two blocks placed 18" on center and 31" on center below the desired top height of the cabinet in its "up" position. Generally, the top height of the cabinet is the level of the top of the run of cabinets or the soffit.

### **Installation Instructions (please refer to drawing)**

#### **Step 1**

Mount a temporary level, horizontal support strip on the wall 32.5" below the desired top height of the cabinet in its "up" position. Generally, the top height of the cabinet is the level of the top of the run of cabinets or the soffit. Locate the studs. Attach the Approach for the Cabinet to a minimum of two studs. In some instances, it may be necessary to install 2" x 6" horizontal blocks between studs. If blocking is necessary, install two blocks placed 18" on center and 31" on center below the desired top height of the cabinet in its "up" position.

#### **Step 2**

Center the guidance system back plate (A) on the support strip and fasten to at least 2 wall studs or horizontal blocking using six #12, 2.5" steel screws along the exposed portion at the bottom of the back plate. Drywall screws should not be used. It is necessary to have someone hold the system in place on the wall while installation continues.

#### **Step 3**

Always unplug the system from the GFCI wall outlet when installing or adjusting the UP/DOWN buttons or Safety Platen. While holding the safety platen (B), temporarily plug the 3-pin modular connector from the UP/DOWN buttons into the corresponding modular jack on the unit's lower rail. Next, plug the 2-pin modular connector from the Safety Plate into the corresponding modular jack on the unit's lower rail.

**Note:** Failure to use a GFCI 110V outlet may result in injury. If a GFCI 110V outlet is not present, or if you are unsure of the type of outlet present, contact a qualified electrician to have one installed.

Plug the Approach for the Cabinet into a GFCI 110 V outlet and (remember someone is holding the system against the wall and needs to beware of sliding components) press the down button on the platen until the front plates (E) expose the top of the back plate to allow screws to be fastened to the studs or horizontal blocking. A minimum of two more screws per stud should be used, for a total of six #12, 2.5" steel screws used to attach the system firmly to the wall. With the system securely attached to the wall, press the up button and run the system all the way up (It free-wheels at the top and bottom of the stroke). Always unplug the system from the GFCI wall outlet when installing or adjusting the UP/DOWN buttons or Safety Platen. Unplug the safety platen. Remove the temporary level, horizontal support strip.

#### **Step 4**

Attach the drive shaft concealment (H). With the system in the "up" position, put a mark on the wall at the position of the top angle support (G). Run the system down to allow the tongue of the drive shaft concealment (H) to fit in the groove between the cabinet and the front plate, and center the hole over the drive shaft nut (I). Position the concealment support level with the mark indicating the position of the top angle support. Use drywall inserts (anchors) to hold the drive shaft concealment piece to the wall.

#### **Step 5**

Attach the safety platen to the cabinet by turning the cabinet upside down. Position the platen, wiring side down, so the cabinet face and platen front are square. Mark the location of pilot holes through the pre-drilled holes on the edges of the safety platen. Drill pilot holes in the cabinet, and attach the safety platen using the screws provided. Do not fasten tightly. Leave at least a 1/4" gap between the platen and the cabinet for the limit switches.

#### **Step 6**

Attach the cabinet to the front plate. Being careful not to damage the limit switches (F), turn the cabinet over and attach with steel screws to both halves of the front plate. Do not allow the screws to protrude beyond the back of the 3/4" plywood front plate, and do not attach the moving cabinet to the stationary drive shaft concealment panel.

#### **Step 7**

Always unplug the system from the GFCI wall outlet when installing or adjusting the UP/DOWN buttons or Safety Platen. Plug the 3-pin modular connector from the UP/DOWN buttons into the corresponding modular jack on the unit's lower rail. Next, plug the 2-pin modular connector from the Safety Plate into the corresponding modular jack on the unit's lower rail. With the system plugged in, run the system down and lift up on the platen. The system should stop as if encountering an object on the counter. If not, adjust the screws under the platen. There should be a gap of .125-.1875" between the cabinet bottom and the safety platen. If the unit does not move down, the limit switches are engaged and the screws under the platen need to be loosened.

#### **Operating Notes**

Always unplug the system from the GFCI wall outlet when installing or adjusting the UP/DOWN buttons or Safety Platen. When installed and adjusted correctly, the ADAS Safety Platen engages after minimal contact with a foreign object. Adjust the safety platen sensitivity by tightening or loosening the screws attaching the safety platen. Downward travel of the cabinet system is prevented when the safety platen is engaged, but the system will continue to have power in the up direction. The movable cabinet system has multiple power cutoff systems for safety. If the Approach for the Cabinet loses partial or complete power, check the following:

Power UP, no power DOWN	Safety Platen is engaged or disconnected.	Disengage Safety Platen, adjust sensitivity if necessary. Check for proper connection of Safety Platen 2-pin modular plug to 2-pin modular jack.
No Power UP, no power DOWN	Thermal override in motor engaged.	Wait 30 minutes with no power to system, allow the motor to cool. Thermal override will reset itself.
No Power UP, no power DOWN	UP/DOWN operating buttons disconnected.	Check for proper connection of UP/DOWN buttons 3-pin modular plug to 3-pin modular jack.
No Power UP, no power DOWN	Safety Circuit Breaker in ADAS control box tripped.	Reset circuit breaker on side of ADAS control box.
No Power UP, no power DOWN	Ground Fault Circuit Interrupt outlet tripped.	Reset GFCI outlet, contact qualified electrical service person.

