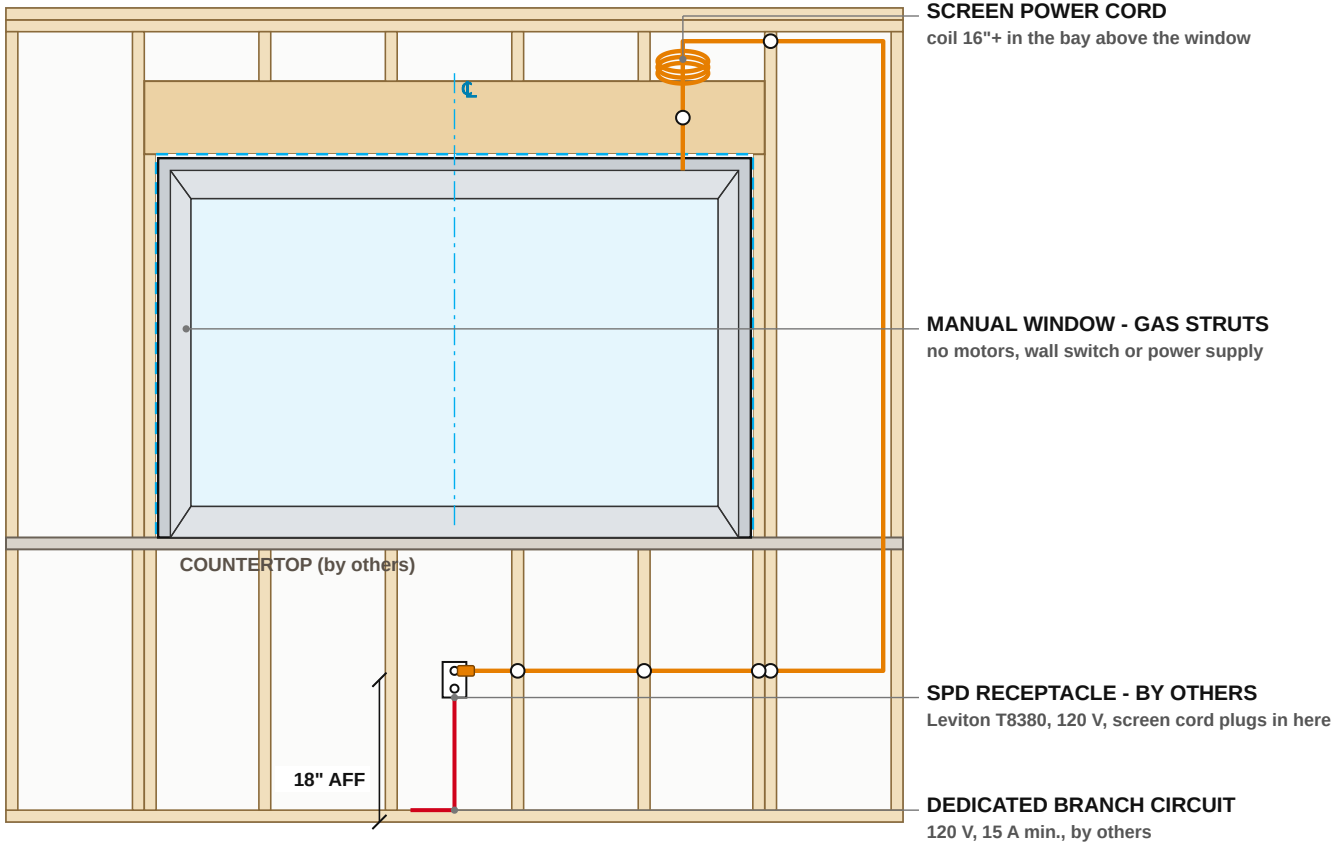
GAS STRUT WINDOW - MOTORIZED SCREEN WIRING

Thruvue™ INFINITY Gas Strut Window · Manual window · Motorized surface mount screen · Interior view · For customer / electrician

OPTVUE™ · (760) 760-0110
Typical drawing - not your shop drawing
Sheet 1 of 1



Rough-in and installation sequence - motorized screen power cord

1. Rough-in before drywall. The motorized screen power cord exits the top of the head jamb at the right end of the screen cassette (interior side). Bore a 1" minimum hole through the header at the cord exit; header bores are subject to approval by the framer / engineer of record.
2. Coil 16" or more of the screen power cord in the empty bay above the window (above the header) so the cord can be pulled down loosely and easily for future repair or replacement of the screen.
3. From the coil, run the cord to the right of the window and down the stud bay outside the king stud to the receptacle centered below the window. Bore studs near their center (min. 1.25" from the face) or install steel nail plates (NEC 300.4); do not staple tight, pinch or kink the cord.
4. Electrician: provide a 120 V, 15 A minimum branch circuit and install the Leviton T8380 surge-protective receptacle (supplied by others, not by Optvue) centered below the window. GFCI / AFCI protection where required by NEC 210.8 / 210.12.
5. Plug the screen power cord into the receptacle. Connect per the screen manufacturer; the screen is operated by remote control or a wall-mounted remote only.
6. Seal or fire-block all bores through top and bottom plates per the building code. Test before closing the wall: the screen must run fully up and down on the remote.

Electrical notes - gas strut window with motorized surface mount screen

OPERATION: Manual window - the top hinged sash opens on gas struts. There are no motors, wall switch or power supply; only the motorized screen needs power.

MOTORIZED SCREEN: It is critical to coil 16" or more of cord in the empty bay above the window so the cord can be pulled down loosely and easily for future repair or replacement of the screen. The cord then runs down to the right of the window and plugs into the SPD receptacle centered below the window. Screen is operated by remote control or wall-mounted remote only.

BRANCH CIRCUIT: 120 V, 15 A minimum branch circuit and receptacle supplied and installed by others (not supplied by Optvue). Receptacle centered below the window, 18" AFF (height assumed - confirm in the field). Surge protection is required - see specified devices.

CODE: All electrical work by a licensed electrician per the current NEC and local codes. This diagram depicts a generalized wiring schematic, drawn at a fixed 75" x 48" window on 16" o.c. framing for every order - it does not reflect the actual window scale or size.

Specified devices



RECEPTACLE - LEVITON T8380-GY
Decora 20 A, 125 V surge-protective (SPD) duplex receptacle, gray, UL 1449 listed, with LED protection indicator. Diverts damaging voltage transients away from the screen motor. Supplied and installed by others; required surge protection for this window.