

INSIDE THE SKYLINE™ CLUTCH

THE DESIGN

The Skyline™ clutch uses a wrap spring technology that can either tighten or loosen in the inner core. When the spring tang is pushed, the diameter decreases, locking the clutch and preventing rotation. When the spring tang is pushed in the opposite direction the spring opens allowing free rotation.

The clutch, designed from military strength plastic and stainless steel gears and springs, are divided into two interior interlocking core sections. The first section being the outside shade tube housing where

the roller shade tube and the fabric is attached onto the tube. The second section being the inner core that is attached to the bead guard. Both sections have cams that are designed to push on the spring tangs. Our clutch is designed so the core is open on two opposite sides. This enables the spring tangs to have a balanced force on both sides simultaneously resulting in the industries smoothest pulling shade.

HOW IT WORKS

1 - Pulling on the bead chain in either direction rotates the pulley cam. The cam pushes against the spring tang opening the springs diameter and allowing free shade movement.

2 - Releasing the bead chain allows the spring to automatically relax and return to its original shape. This locks the shade in place.

3 - The weight of the shade helps to keep it locked in position. The weight forces the spring tang open, locking it to the inner core. Thus, the heavier the shade, the larger the spring is open and the tighter the spring locks.

