



# SUPREMO

*Special Edition*

## CELEBRATING 50 YEARS OF AUDIO MASTERY

Introducing the Supremo Special Edition—Morel's most advanced 3-way active component system, created in honor of our 50th anniversary. It's the culmination of decades of engineering, precision craftsmanship, and a lifelong devotion to music. Designed to perform in the most demanding automotive environments, the Supremo SE delivers uncompromising clarity, tonal balance, and control. Each system undergoes strict matching to ensure seamless integration and stereo imaging, resulting in a lifelike, immersive experience. With exclusive acoustic technologies and high-performance materials, it captures every nuance and dynamic with stunning precision.

### Precision-Matched Components



Each Supremo Special Edition tweeter and midrange undergoes a rigorous selection process to ensure near-identical frequency response, phase behavior, and SPL levels. Precision matching results in coherent stereo imaging, improved soundstage width, and consistent tonal accuracy. Matched impedance curves ensure even power distribution, optimizing amplifier performance.

### Advanced Motor & Suspension System



Underhung motor design across all drivers ensures that the coil remains within the magnetic gap, maintaining a stable  $Bl(x)$  curve for distortion-free output. Shorting rings incorporated into the motor system significantly reduce eddy currents, ensuring a flat impedance curve and extended high-frequency response.

### External Voice Coil (EVC™) Technology



3" EVC™ on the woofer provides enhanced heat dissipation and greater power handling, allowing for extended bass reproduction without compression. 2.1" EVC™ on the midrange maintains ultra-low distortion and improved transient response. Compared to traditional voice coils, EVC™ increases cooling efficiency by up to 30%, preventing power

### Advance Acoustically chassis Design



Uniflow™ Aluminum Chassis eliminates internal reflections and resonance, improving midrange clarity. Controlled Acoustic Resistance (C.A.R.)™ Filter fine-tunes the woofer's transient response, reducing overhang and improving impact.



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## Tweeter – Supremo Acuflex™ Soft Dome

At the top end, the Supremo tweeter features Morel's proprietary **Acuflex™ soft dome** - a specially damped diaphragm that controls resonance and eliminates harshness. This allows the tweeter to produce detailed, crystal-clear highs with a natural tonal character. Its wide-dispersion design keeps the soundstage open and consistent, even at off-axis angles. Internally, the tweeter is housed in a carefully engineered rear chamber using **Anti-Standing Wave (ASW™) technology**, reducing internal reflections and extending frequency response. Combined with a precision suspension system, it maintains symmetry and control across the full range—resulting in clean, distortion-free playback even at high volumes.



## Midrange – Supreme Vocal Clarity

The Supremo midrange driver is built around a 2.1" EVC™ underhung voice coil, giving it remarkable transient accuracy and low distortion. It covers a wide frequency band from 200 Hz to 5 kHz, ensuring seamless integration with both tweeter and woofer.

Morel's Uniflow™ aluminum chassis minimizes internal reflections, enhancing vocal presence and three-dimensional stage depth. Suspension performance is tightly controlled for linearity at all listening levels, preserving micro-details and ensuring natural tonality. With outstanding off-axis performance, the Supremo midrange delivers lifelike articulation across the entire cabin.



## Woofer – Deep, Dynamic Bass

The foundation of the system lies in its powerful woofer, driven by a 3" EVC™ voice coil and housed in a carbon fiber/Rohacell composite cone. This combination of stiffness and low mass prevents cone breakup, supporting fast and accurate bass response. A key feature of the woofer is Morel's Controlled Acoustic Resistance (C.A.R)™ filter, which tightens transient behavior and avoids overhang, delivering bass that's deep, clean, and impactful. The woofer's underhung motor structure and symmetrical magnetic field ensure minimal distortion, even at high SPLs, while preserving low distortion and clean transient response for precision and musicality.



	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	MAX POWER HANDLING (W)	SENSITIVITY (2.83 V/1M) DB	FREQUENCY RESPONSE	CROSSOVER
Supremo 63 Special Edition	6½" 3-way	140	160	88	40-25000	250/2800

