

Erasing the boundaries

Erasing the boundaries between artist and listener is at the core of our ethos. With a highly detailed approach to handmade craftsmanship and innovation, we deliver a sound that seamlessly fuses form with function. For the last five decades, we have been driven by the desire to recreate the raw emotions of live music experiences. Our latest line of products will immerse you in a moment where the musicians are playing just for you. The power of sound is so immense, it can make your heartbeat quicken, embolden you to give in to your emotions and connect to your love for music. When Morel unleashes the music, you are always in the front row.

The Art of Sound

Morel collaborated with Miriam Cabessa, a renowned Israeli and NY-based contemporary artist, to bring to life the movement of sound. While the physicality of sound remains unseen, Cabessa sought to viscerally present it: with Morel speakers submerged in gold liquid, sound waves reverberated throughout the liquid, creating ripples reflective of the frequency of sound. Cabessa's works are known for interpreting movement through dynamic flow and rhythm. Her work, displayed throughout our catalogue, sheds a unique light onto the experience of Morel. It is an almost spiritual experience, just like the one we seek with every product that we build.

unleash **the music**



RESOLUTION

Engineered to reproduce music
to the most exacting standards



SUPREMO
Special Edition

SUPREMO SPECIAL EDITION

The Pinnacle of Car Audio

The Supremo Special Edition is the finest car audio system Morel has ever crafted, engineered for the most discerning audiophiles who demand unparalleled performance. This system represents the culmination of over 50 years of expertise in speaker design, driven by Morel’s commitment to delivering the most natural, life-like sound possible.

Handcrafted with precision and featuring Morel’s latest transducer technology, the Supremo Special Edition offers a listening experience like no other. The advanced woofers incorporate a high-performance neodymium magnet and the revolutionary EVC™ (External Voice Coil) motor design, paired with a 3” (76mm) diameter Hexatech™ aluminum voice coil. These elements work in harmony with a proprietary carbon fiber and Rohacell sandwich cone to produce lightning-fast transient response and dynamic, accurate sound reproduction.

At the high end, the Supremo special edition tweeter, an evolution of the Piccolo, widely regarded as one of the finest in the industry—delivers exceptional clarity, open air, and intricate details, creating a soundstage that is as rich and engaging as it is precise.

The Supremo Special Edition redefines high-resolution audio in the automotive world. Every note is reproduced with stunning clarity, balanced tonality, musicality and a depth of detail that reveals itself with every listen. Whether you’re enjoying subtle nuances or bold musical moments, the Supremo Special Edition immerses you in a truly lifelike performance.

This isn’t just car audio—it’s the embodiment of Morel’s legacy and a testament to its dedication to excellence. Experience the Supremo Special Edition and feel the music as it was meant to be heard.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (DB)	FREQUENCY RESPONSE (HZ)
SUPREMO 63 SE	6½" 3-way	140	600	88	40-25000
SUPREMO 93 SE	9" 3-way	200	1000	88	25-25000



ULTIMO PRO

The Legacy of Precision and Musicality in Bass

The Ultimo Pro continues the legacy of Morel’s renowned Ultimo subwoofers, setting a new standard for car audio bass reproduction. Designed for audiophiles seeking pure sound quality, the Ultimo Pro delivers controlled, musical bass with extraordinary output and minimal distortion, making it the ultimate choice for those who demand excellence.

At the core of the Ultimo Pro lies a massive 5.1" Hexatech™ aluminum voice coil, one of the largest ever designed for car audio. This advanced coil is engineered not only for remarkable heat dissipation but also for creating a piston-like, linear motion. By improving the control over the diaphragm's movement, the 5.1" coil minimizes distortion, allowing for a clean, natural bass response. This precision ensures that every note is delivered with both power and clarity, faithfully reproducing the original recording.

Morel's unique hybrid carbon fiber and paper one-piece cone further enhances the Ultimo Pro’s performance. Combining the lightweight stiffness of carbon fiber with the natural damping properties of paper, the cone offers remarkable strength and precision while minimizing unwanted resonances. The seamless, one-piece construction provides uniform movement, ensuring optimal bass performance with minimal distortion.

The Ultimo Pro’s newly engineered double suspension system enhances its linearity and precision, providing superior excursion and responsiveness. Designed for use in both sealed and ported enclosures, the Ultimo Pro offers powerful, accurate bass with tight control—ensuring that low frequencies are reproduced with exceptional detail and musicality.

The Ultimo Pro is the culmination of Morel’s decades of experience, combining cutting-edge technology, innovative design, and superior craftsmanship. It’s not just a subwoofer—it’s the next evolution in bass reproduction, continuing the legacy of the Ultimo series and setting the benchmark for performance in car audio.

MODEL	UNIT SIZE (Inch)	NOMINAL IMPEDANCE (Ohm)	POWER HANDLING (WRMS)	PEAK POWER HANDLING (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
Ultimo Pro 104D	10" Diameter	Dual 4Ω	900	2500	83	10-500
Ultimo Pro 124D	12" Diameter	Dual 4Ω	1000	3000	83.7	10-500





REFERENCE

Ultimate synergy of sound quality
and power handling



ELATE CARBON NEO PRO

The Elate Carbon Neo Pro represents the next evolution of Morel’s iconic Elate series—pushing the limits of automotive audio performance with new technologies, refined design, and uncompromising craftsmanship. Building on the legacy of the acclaimed Elate Carbon Pro, the Neo generation introduces a series of innovations designed to elevate resolution, efficiency, and musical realism to new heights.

At the heart of the system is the newly refined Alto tweeter, now enhanced with a more powerful and efficient neodymium motor system and the introduction of Morel’s new ASW (Anti-Standing Wave) rear chamber design. This advanced acoustic architecture reduces internal resonances and distortion, allowing the tweeter to deliver extraordinary clarity, improved dynamics, and an even more open and natural soundstage.

The Elate Carbon Neo Pro continues to utilize Morel’s advanced TLC carbon-fiber/Rohacell sandwich cones for the midrange and woofer drivers, paired with large external voice coils and optimized motor systems. For the Neo generation, both the suspension geometry and magnetic structure have been further refined to improve linearity, reduce distortion, and deliver faster transient response with greater dynamic authority.

These improvements are complemented by subtle yet sophisticated aesthetic refinements that reflect the system’s technical excellence and premium character.

The result is a speaker system capable of delivering breathtaking detail, powerful dynamics, and an expansive three-dimensional soundstage—faithfully reproducing music exactly as the artist intended. With the Elate Carbon Neo Pro, Morel once again redefines what is possible in high-performance car audio.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)	CROSSOVER (Optional)
Elate Carbon Neo Pro 62A	6½" 2-way	180	1000	87	30-25000	MXT280C
Elate Carbon Neo Pro 63A	6½" 3-way	180	1000	87	30-25000	MXT380C
Elate Carbon Neo Pro 93A	9" 3-way	200	1000	89	25-25000	MXT380C



ELATE CARBON NEO

The Elate Carbon Neo continues the Elate tradition of delivering exceptional high-power, high-fidelity performance in a more installation-friendly format. Designed for enthusiasts seeking uncompromising sound without sacrificing flexibility, the new Neo systems incorporate many of the technological advancements developed for the Neo Pro series.

A key highlight is the introduction of the new MT-550 tweeter, featuring Morel's legendary handcrafted Acuflex™ coated soft dome. Engineered with a newly optimized neodymium motor system, the MT-550 offers improved efficiency, lower distortion, and a more refined acoustic character while maintaining the smooth, natural tonal balance that defines the Morel sound. The result is a tweeter that not only performs better but also reflects a refined and modern design aesthetic.

The Neo woofers and midranges continue to utilize Morel's advanced TLC carbon-fiber/Rohacell sandwich cones, paired with large voice coils and powerful motor systems optimized using advanced simulation tools. For the Neo generation, both the suspension design and magnetic structures have been enhanced to improve driver linearity, reduce distortion, and deliver greater dynamic expression across the frequency range.

Refining an already exceptional speaker system is no simple task—but the Elate Carbon Neo achieve exactly that. With improved driver technologies, enhanced acoustic engineering, and Morel's signature handcrafted attention to detail, the new generation raises the Elate series to an entirely new level of performance and musical engagement

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)	CROSSOVER (Optional)
Elate Carbon Neo 62A	6½" 2-way	180	1000	87	30-25000	MXT280C
Elate Carbon Neo 63A	6½" 3-way	180	1000	87	30-25000	MXT380C
Elate Carbon Neo 93A	9" 3-way	200	1000	89	25-25000	MXT380C



HYBRID

Embracing Morel’s legendary craftsmanship, engineering and innovation, the latest Hybrid systems define our ever-evolving concept of high-fidelity speaker design. Now in their fifth generation, the new Hybrid systems provide a further refined listening experience. Their subtle balance of resolution, power and efficiency has been optimized to evoke raw emotions, regardless of the music genre.

The Hybrid line is available in 2-way, 3-way and Integra point source solutions, creating optimal sound coherency regardless of your speaker requirements..

Hybrid continues to provide top level Morel technology. Each midrange and woofer comes equipped with a 2.1” (54mm) Hexatech™ aluminum EVC, a DPC one-piece cone architecture, hybrid and double magnet motors. The handcrafted MT300 soft dome tweeter employs our innovative Acuflex™ technology, producing a natural, non-fatiguing listening experience. In 3-way systems, the CDM700 is a perfect midrange compliment, designed to work flawlessly with the MT300 and Hybrid woofers. The line is styled with a beautiful brushed aluminum trim, an external aesthetic which compliments its elegant internal componentry.

The Integra, Morel’s point source system, is an innovative landmark in speaker design. It utilizes point-source topology to eliminate acoustic problems inherent in conventional coaxial systems. By creating a single sound source on the same axis, the tweeter and woofer seamlessly integrate, generating omni-directional time alignment, heightened imaging and sound dispersion.

Going eighteen years strong, the Hybrid line continues to exceed expectations. This latest evolution showcases how far we intend on taking it.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)	CROSSOVER
Hybrid 63	6½" 3-way	140	600	91	35-25000	MXR300.4
Hybrid 42	4" 2-way	100	300	89	50-25000	MXR240.4
Hybrid 52	5¼" 2-way	120	500	90	45-25000	MXR240.4
Hybrid 62	6½" 2-way	140	600	91	35-25000	MXR240.4
Hybrid Integra 42	4" Point Source	80	250	92	80-25000	MXR250.4i
Hybrid Integra 52	5¼" Point Source	90	250	90	70-25000	MXR250.4i
Hybrid Integra 62	6½" Point Source	100	300	91	65-25000	MXR250.4i



VIRTUS NANO CARBON

The Virtus Nano Carbon is a one-of-a-kind speaker system which will transform your drives into multi-sensory musical experiences. Their ultra-slim design exemplifies our innovative quest to push acoustic and mechanical boundaries, while offering practical solutions to car audio enthusiasts.

The cutting edge design of the Virtus Nano Carbon line combines top level technology in an ultra-slim profile that can fit where comparable speakers can't. Both the 4" and 6.5" speakers woofers come in at only 0.7" (17mm) deep, making them the shallowest car audio speakers available in the market. This engineering feat uses innovative suspension design, a highly powerful neodymium magnet system, a 2.1" (54mm) Hexatech aluminum voice coil and Grand Dome carbon-fiber sandwich cone.

The Virtus Nano Carbon delivers benchmark level performance in 2-way, 3-way and Integra point source systems. While they are the perfect speaker where mounting depth is a concern, their performance is markedly better than traditional speaker designs. Their dynamic range and rich bass will engage you while the detailed and natural sound will allow you to “see” the music as its intended. Sleek and aurally engaging, the Virtus Nano Carbon is a treat to both your eyes and ears.

Registered U.S. Patent No. 11,057,696

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)	CROSSOVER
Virtus Nano Carbon 63	6½" 3-way	100	300	88	50-22,000	MXR130
Virtus Nano Carbon 42	4" 2-way	90	300	88	80-22,000	MXR200.4
Virtus Nano Carbon 62	6½" 2-way	100	300	88	50-22,000	MXR200.4
Virtus Nano Carbon Integra 42	4" Point Source	80	300	87	90-20,000	MXR250.4i
Virtus Nano Carbon Integra 62	6½" Point Source	100	300	87	50-20,000	MXR250.4i



VIRTUS 62/63

The Virtus 62 2-way and Virtus 63 3-way embody Morel's technological advancements. From its unified woofer chassis, powerful EVC™ motor with large 2.1" voice coil, and MT120N Acuflex™ coated 1.1" soft dome tweeter and MXR crossover technology, the new systems bring emotion to music with a balance of rich, natural midrange, high-frequency detail and vibrant bass. The Virtus 63 3-way incorporates our new 2.5" wide-band midrange with detailed highs in a compact size, and a frequency response of 300Hz-19kHz!

The new Virtus 62 is available in 2-ohm and 4-ohm, and the Virtus 63 in 4-ohm impedance options, providing an additional degree of versatility for building your system. This ensures that you can maximize the power from your amplification source, whether it's your factory head unit or an aftermarket amplifier. Choose the impedance that suits your setup best and unlock the full potential of your audio system.

MODEL	SIZE & CONFIGURATION	NOMINAL IMPEDANCE (OHMS)	POWER HANDLING (WRMS)	MAX POWER HANDLING (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
Virtus 62.4	6½ 2-way	4	140	300	88	55-22,000
Virtus 62.2	6½ 2-way	2	120	260	90	55-22,000
Virtus 63.4	6½ 3-way	4	140	300	88	55-22,000



ULTIMO POWERSLIM

The Morel Ultimo PowerSlim subwoofers redefine what's possible in the world of bass reproduction. From their compact yet powerful architecture and state-of-the-art engineering, they are an unrivaled force in the realm of shallow subwoofers.

As a testament to their design, the Ultimo PowerSlim subwoofers were bestowed the esteemed EISA "Best In-Car Subwoofer" award for 2023-2024. This accolade defines Morel's relentless commitment to pioneering audio technology and delivering unparalleled sonic encounters.

In developing a no-compromise shallow subwoofer, much inspiration was taken from what was learned with our renowned Ultimo Titanium, but reimagined to deliver the ultimate bass performance in a compact space. At the heart of the Ultimo PowerSlim is our advanced EVC™ (External Voice Coil) motor technology featuring a massive 5.1-inch diameter voice coil. Its large size, combined with the use of our lightweight aluminum Hexatech™ voice coil wire, give it power handling that is simply unmatched in the shallow subwoofer category while serving up superb linearity and control, ensuring a rich, accurate and dynamic bass experience.

The Ultimo PowerSlim subs are indeed slim. Available in 10 and 12-inch, mounting depth measures 3.1" (78mm) and 3.4" (86mm), respectively. This is made possible with the development of our Uniflow die-cast aluminum chassis, unique Progressive Field Symmetry (PFS) suspension, HexaCore carbon fiber and aluminum honeycomb flat piston cone. These components were maximized to provide remarkable excursion for high output in the most compact of dimensions.

The uncompromising design of the Ultimo PowerSlim series redefines the shallow subwoofer category. They deliver everything you expect in your bass in nearly half the space.

MODEL	UNIT SIZE (INCH)	NOMINAL IMPEDANCE (OHMS)	POWER HANDLING (WRMS)	PEAK POWER HANDLING (10MS) (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)	MOUNTING DEPTH
PS124D	12" Diameter	Dual 4Ω	700	2100	83	20-500	3.4" (86mm)
PS104D	10" Diameter	Dual 4Ω	700	1800	82	20-400	3.1" (80mm)



ULTIMO SCX

High-Performance Bass, Exceptional Value

The Ultimo SCX raises the bar for bass performance, combining Morel’s cutting-edge technology with incredible value. Designed for enthusiasts who demand both power and precision, the SCX features a massive 5.1” Hexatech™ voice coil paired with an aluminum former. This configuration ensures efficient heat dissipation, contributing to a piston-like, linear movement that reduces distortion and enhances overall bass control.

Incorporating Morel’s innovative DMM™ (Double Magnet Motor) system, the SCX maximizes magnetic field efficiency, boosting power handling while minimizing distortion. This advanced motor design ensures that the voice coil moves with precision, delivering deep, clean bass notes with exceptional clarity.

The hybrid carbon fiber and paper composite cone adds strength and damping, providing a highly controlled and accurate bass response without breakup or distortion. Combined with a new suspension system, the Ultimo SCX boasts impressive excursion and dynamic range, making it ideal for even the most demanding bass notes.

Designed to work in both sealed and ported enclosures, the Ultimo SCX offers versatile performance for audiophiles looking to achieve both musicality and high output. This subwoofer strikes the perfect balance between power, precision, and affordability, making it an ideal choice for those who want a high-fidelity experience at a great value.

MODEL	UNIT SIZE (Inch)	NOMINAL IMPEDANCE (OHMS)	POWER HANDLING (WRMS)	PEAK POWER HANDLING (10MS) (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
Ultimo SCX102	10" Diameter	2Ω	600	1500	82.8	10-500
Ultimo SCX122	12" Diameter	2Ω	600	1500	82.9	10-500



MPS LIMITED AMPLIFIERS

For the true audiophile who seeks fidelity and power, we introduce you to the MPS LIMITED amplifiers.

Developed to the highest standards to celebrate Morel’s 45th anniversary, two models consisting of a 2-channel class AB and a class D monoblock utilize audiophile-grade components, including Burr-Brown OPA2134 op-amps, Rubicon and WIMA ultra-low ESR capacitors, Sanken output transistors, gold plated connections, and chassis-mounted RCA connections. Noise eliminating balanced line inputs accept signal up to 20 volts.

Removable side panel plates allow for unique mounting options and enable amplifiers to be stacked together to minimize their footprint.

This superior design and construction give the MPS LIMITED the power and performance to drive any Morel system to its maximum.

MPS LIMITED AMPLIFIERS	MPS 1.1100 LIMITED	MPS 2.150 LIMITED	
RMS POWER @ 14V		High Power	High Current
4 Ohm	1 x 650W	150W x 2	100W x 2
2 Ohm	1 x 1,100W	N/A	150W x 2
SPECIFICATIONS			
THD+N	0.10%		0.02%
Frequency Response (+/-1dB)	10Hz-220Hz		10Hz-80kHz
S/N Ratio (Rated Power, A-weighted)	102dB		111dB
Channel Separation	N/A		68dB
Damping Factor	>200		>250
Selectable Input Range	Yes (x1/x4)		Yes (x1/x2)
PREAMP			
Filter	LP, 40Hz-220Hz		N/A
Subsonic Filter	OFF/25Hz/35Hz		N/A
Subwoofer Level Control	Optional MPS-R1, 0-20dB		N/A
Pass-Through Preamp Output	YES		N/A
DIMENSIONS			
Height (H)	2" (51mm)		2" (51mm)
Width (W)	6.7" (170mm)		6.7" (170mm)
Length (L)	12.65" (322mm)		12.65" (322mm)





PERFORMANCE

—
All the virtues and sound of Morel
in affordable packages



SENSUS

The Sensus 62 and 63 offer a perfectly balanced audio experience that captures the full spectrum of sound at a reasonable price. Whether you’re listening to your favorite tracks or diving into new music, the clarity, depth, and detail of these systems will make you feel like you’re right there in the recording studio.

The Sensus 62 2-way component system is crafted to bring purity to every note. It features a 6.5-inch (165mm) woofer with a damped polymer cone and butyl rubber surround to deliver tight, punchy bass and natural midrange. The compact 1.1-inch (28mm) textile soft dome tweeter incorporates a cavity back for delivering a smooth and detailed high-frequency response, ensuring a seamless integration with the woofer to create a coherent and immersive soundstage. Bringing the speakers together is a sophisticated passive crossover that utilizes high-grade components to deliver precise control over frequency distribution while enhancing overall audio fidelity.

If you’re replacing a factory 3-way system, or if you simply want to take your audio system to the next level, stepping up to the Sensus 63 will provide you an even more immersive experience. Featuring the same 6.5-inch woofer and 1.1-inch cavity back tweeter as the Sensus 62, but with the added 3.5” midrange drivers, the Sensus 63 excels in reproducing complex musical passages with greater depth and realism. The system’s advanced 3-way crossover network ensures perfect alignment between the drivers, resulting in a natural and lifelike audio presentation.

Both the Sensus 62 and 63 systems are built with Morel’s signature attention to detail, using only the finest materials to ensure longevity and performance. From their beautifully machined cast aluminum chassis on both midrange and woofer, to the unique cavity back tweeter, every component is optimized to deliver the best possible sound quality.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
Sensus 62	6½" 2-way	120	300	88	40-25,000
Sensus 63	6½" 3-way	120	300	88	40-25,000





TEMPO ULTRA MKII

The Tempo Ultra MKII is the perfect line for music aficionados who demand outstanding performance for value, all with the same Morel quality you’ve come to know and love.

The Tempo Ultra MKII features both 2-way component and Integra point source solutions, creating flexible options for diverse setups. Each component system comes equipped with handcrafted 1.1” (28mm) soft dome tweeters and woofers with oversized voice coils and robust magnet systems.

The oversized 1.5” (38mm) diameter voice coil gives Tempo Ultra MKII outstanding power handling - up to 40% higher than the competition - while maintaining low distortion levels. This also allows them to deliver phenomenal bass, giving listeners a full response without the need for a subwoofer. Combined with aforementioned soft dome tweeters, listeners will enjoy Morel’s signature tonal balance, accurate detail and vocal range for a truly memorable musical experience.

The Tempo Ultra MKII’s value is undeniable. Let them take you higher.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
Tempo Ultra 502 MKII	5¼" 2-way	110	250	89	65-22000
Tempo Ultra 602 MKII	6½" 2-way	130	250	90	55-22000
Tempo Ultra 572 MKII	5x7" 2-way	120	250	90	60-22000
Tempo Ultra 692 MKII	6x9" 2-way	150	280	91	50-22000
Tempo Ultra Integra 402 MKII	4" Point source	80	140	85	80-22000
Tempo Ultra Integra 502 MKII	5¼" Point source	100	220	89	55-22000
Tempo Ultra Integra 602 MKII	6½" Point source	120	220	90	50-22000
Tempo Ultra Integra 572 MKII	5x7" Point source	110	220	90	60-22000
Tempo Ultra Integra 692 MKII	6x9" Point source	150	250	92	50-22000





MAXIMO ULTRA MKII

Let your Morel journey begin with the Maximo Ultra MKII. Following Morel’s philosophy of developing the industry-leading music systems, the Maximo Ultra MKII series shares our design principles at an affordable price.

Each kit was engineered to be easily installed in original speaker locations and to be integrated with factory head units or used with an aftermarket amplifier. Whether your vehicle uses coaxials, or 2 or 3-way components, Maximo Ultra MKII has you covered.

Regardless of what you drive or what genre you listen to, the high value Maximo Ultra MKII will vastly enhance your listening experience. Welcome to the Morel family.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
Maximo Ultra 603 MKII	6½" 3-way	100	180	90.5	50-20000
Maximo Ultra 603A MKII	6½" 3-way	100	180	90.5	50-20000
Maximo Ultra 502 MKII	5¼" 2-way	90	160	89	50-20000
Maximo Ultra 602 MKII	6½" 2-way	100	180	90.5	50-20000
Maximo Ultra 602HE MKII	6½" 2-way	100	180	94	60-20000
Maximo Ultra Coax 402 MKII	4" Coaxial	50	100	87.5	75-20000
Maximo Ultra Coax 502 MKII	5¼" Coaxial	80	140	89.5	55-20000
Maximo Ultra Coax 602 MKII	6½" Coaxial	90	160	91	55-20000
Maximo Ultra Coax 692 MKII	6x9" Coaxial	110	200	92	45-20000





PRIMO SL

The Morel PRIMO SL series is engineered to overcome the mechanical challenges of delivering authoritative bass within the strict physical constraints of modern vehicle architecture. Optimized for small-volume enclosures, PRIMO SL provides a high-resolution low-frequency solution suited for both factory-integrated upgrades and custom sound-quality-driven systems. The 8" model is rated at 250W RMS, while the 10" version handles up to 300W RMS, both powered by a high-grade ferrite magnet motor system for efficient and controlled power handling.

Structural integrity is central to the PRIMO SL design. A carbon-weave cone delivers an ideal balance of low mass and high rigidity, enabling fast transient response and precise bass articulation. A high-excursion surround maintains stable, linear cone movement throughout the operating range, ensuring consistent performance even in compact enclosure designs. For secure and installer-friendly integration, PRIMO SL is equipped with 10-AWG spring terminals for reliable high-current connections.

Designed for applications where space is at a premium, PRIMO SL delivers clean, controlled low-frequency resolution without compromise—proving that reduced mounting depth does not require reduced performance.

MODEL	UNIT SIZE (Inch)	NOMINAL IMPEDANCE (OHM)	POWER HANDLING (WRMS)	PEAK POWER HANDLING (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)	MOUNTING DEPTH
PSL84	8" diameter (203 mm)	4Ω	250	500	84.6	15-500	3.125" (80.1 mm)
PSL104	10" diameter (263 mm)	4Ω	300	600	86.4	10-500	3.5" (89 mm)





PRIMO SLAE

Morel PRIMO PSL8AE & PSL10AE | Active Enclosure Solutions

Experience effortless bass perfection in a compact, all-in-one package designed for the modern road. The Morel Primo PSL Active Subwoofer series is a sophisticated solution for the space-conscious audiophile, combining a finely tuned high-output, shallow-profile subwoofer with a built-in 350-Watt amplifier. These systems are as visually stunning as they are acoustically impressive, wrapped in high-quality carpet and protected by beautiful aluminum die-cast grilles. The grilles feature Morel's iconic Lotus design, ensuring the subwoofers remain safe while adding an unmistakable touch of elegance to your trunk.

Engineering flexibility was a priority in the development of the PSL Active Subwoofers. To ensure compatibility with any vehicle, each enclosure includes both high-level and low-level inputs for the amplifier, making integration with original factory systems or aftermarket radios simple and efficient. Each enclosure was thoughtfully designed for adaptable installation; they can be used as a discreet down-fire enclosure or, if space saving vertical mount is required, the four elevation feet can be removed. Understanding that cargo needs can change, each unit was also equipped with a quick-disconnect power plug for immediate and easy removal.

Unlike standard "all-in-one" boxes, the Primo deliver deep, rhythmic bass and perfect integration with your soundstage. So, whether you choose them for their robust bass delivery or their elegant, space-saving footprint, the Primo PSL Active Subwoofers define the modern standard for integrated bass without forcing you to compromise.

MODEL	SIZE	DRIVER SIZE	OUTPUT POWER	FREQUENCY RESPONSE (Hz)	OPERATING VOLTAGE	INPUT	LOW-PASS CROSSOVER	BASS BOOST
PSL 8AE	H 6.5" (165mm) x W 12.8" (326mm)x L 16.5" (420mm)	8" (203mm)	350 Watts	20 – 200Hz	10-17 Volts	High: 0.2 - 9 VRMS Low: 0.1 - 4.5 VRMS	50-200Hz @ 12dB	0-6dB @ 45Hz
PSL 10AE	H 6.5" (165mm) x W 13.3" (338mm) x L 18.1" (460mm)	10" (254mm)	350 Watts	20 – 300Hz	10-17 Volts	High: 0.2 - 9 VRMS Low: 0.1 - 4.5 VRMS	50-200Hz @ 12dB	0-6dB @ 45Hz





KINETIC

The all-new Morel Kinetic subwoofers harness innovative engineering in an affordable package. Available in 8", 10" and 12" sizes, these subwoofers deliver deep, powerful bass with unparalleled authority in compact enclosures.

Each model uses a robust 2" voice coil capable of handling up to 350 Watts RMS power. The Kinetic features tinsel lead wires that are woven directly into the driver's primary suspension to give exceptional durability, whereas damped polymer cones and stitched high-excursion surrounds enhance each subwoofer's ability to reproduce low frequencies with precision.

Experience the fusion of power, precision and affordability with Morel's Kinetic subwoofers.

MODEL	UNIT SIZE (Inch mm)	NOMINAL IMPEDANCE (OHM)	POWER HANDLING (WRMS)	PEAK POWER HANDLING (10ms) (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
KS804	8" (220mm)	4Ω	250	500	86.5	25-900
KS104	10" (263mm)	4Ω	300	600	88	20-900
KS124	12" (305mm)	4Ω	350	700	90	20-900





MPS AMPLIFIERS

The MPS series amplifiers integrate seamlessly with Morel speaker systems, powering music the way it's supposed to be heard. Engineered to a higher level, comparably priced amplifiers simply cannot match the high-fidelity sound quality of the MPS series.

Available in 4 and 5-channel, as well as a monoblock option, each model uses superb components and thoughtful design. Top mounted level and filter controls are concealed beneath a removable chassis panel, making for easy adjustments. Noise eliminating balanced line inputs can receive signal from most sources, including high-level inputs up to 20 volts on mono channels. Other integration features consist of auto turn-on thru signal sensing, as well as and DC offset sensing, making the MPS amplifiers friendly for integrating with factory audio systems.

The MPS amplifiers will provide you with the seamless audio experience you’ve been waiting for. Let them lead the charge while you sit back and enjoy the drive.

MPS AMPLIFIERS	MPS 4.400	MPS 1.550	MPS 5.950
RMS POWER @ 14V			
4 Ohm	4 x 70W	1 x 350W	4 x 70W + 1 x 350W
2 Ohm	4 x 100W	1 x 550W	4 x 100W + 1 x 550W
SPECIFICATIONS			
THD+N	0.05%	0.15%	0.05% (main) 0.15% (sub)
Frequency Response (main)	10Hz-30kHz	N/A	10Hz-30kHz
Frequency Response (sub)	N/A	10-220Hz	N/A
S/N Ratio (Rated Power, A-weighted)	100dB	100dB	100dB
Damping Factor	>100	>150	>100 (main), >150 (sub)
Selectable Input Range	Yes (x1/x2)	Yes (x1/x4)	Yes (x1/x2/x4)
PREAMP			
Filters (main)	HP/LP, 40Hz-400Hz	N/A	HP/LP, 40Hz-400Hz
Filters (sub)	N/A	LP, 40-220Hz	LP, 40-220Hz
Subwoofer Level Control	No	YES, 0-20dB	YES, 0-20dB
Subsonic Filter	No	Selectable Off/25Hz/35Hz	Selectable Off/25Hz/35Hz
DIMENSIONS			
Height (H)	2" (51mm)	2" (51mm)	2" (51mm)
Width (W)	6.7" (170mm)	6.7" (170mm)	6.7" (170mm)
Length (L)	12.39" (314.5mm)	8.44" (214.5mm)	18.29" (464.5mm)





MPD AMPLIFIERS

Small Footprint. Big Performance.
The MPD Series amplifiers deliver high-fidelity performance, powerful output, and exceptional value in a compact, installation-friendly design. Engineered for modern vehicle systems where space is limited, MPD amplifiers combine strong power delivery with refined sonic accuracy, allowing music to be reproduced with clarity, control, and natural tonal balance.

Designed with sound purity in mind, each MPD amplifier is built using carefully selected premium components, including WIMA capacitors, ensuring stable performance and a clean, uncolored signal path. This attention to detail allows the amplifier to preserve the character of the music while delivering the authority needed to drive demanding speaker systems.

Despite their small footprint, MPD amplifiers provide impressive power reserves while maintaining low distortion, ensuring consistent performance even at higher listening levels. High- and low-level inputs allow seamless integration with both factory and aftermarket head units, making MPD an ideal solution for OEM upgrades and custom installations alike.

Expanding the lineup is the MPD 5.550, a versatile five-channel amplifier that delivers greater system design flexibility by combining multi-channel speaker amplification with a dedicated subwoofer channel in a single compact chassis. With their combination of compact size, powerful output, premium construction, and outstanding value, the MPD Series delivers Morel's signature musical performance in an accessible amplifier platform.

MPD AMPLIFIERS	MPD 5.550	MPD 4.70	MPD 4.100	MPD 1.500
4Ω stereo	75W x 4+250W	70W x 4	115w x 4	350w x 1
2Ω stereo	110W x 4+400W	100W x 4	165w x 4	550w x 1
4Ω Mono/Bridged	220W x 2 (Sub N/A)	200W x2	330w x 2	N/A
Minimum Impedance		2Ω	2Ω	2Ω
SPECIFICATIONS				
THD+N	<0.3%	<0.2%	<0.2%	<0.3%
Frequency Response (+/-1dB)	Main: 20HZ-30KHZ(-3dB) Sub: 10-220Hz(-3dB)	20Hz-30kHz	20Hz-30kHz	10-220Hz
S/N Ratio (Rated Power, A-weighted)	>95dB	>93dB	>93dB	>98dB
Channel Separation	>50dB	>50dB	>50dB	N/A
Input Voltage Range	7.5V-16V DC	0.35-3.5V	0.35-3.5V (PREI NPUT) 0.7-7V (SPK INPUT)	0.35-3.5V (PREI NPUT) 0.7-7V (SPK INPUT)
PREAMP				
Filters	HPF OFF-200Hz; LPF 50-220Hz; Subsonic OFF-50Hz	HPF OFF-300Hz for Group A LPF/HPF 50Hz-300Hz for Group B	HPF OFF-300Hz for Group A LPF/HPF 50Hz-300Hz for Group B	LPF 40-220Hz; Subsonic OFF-50Hz
Crossover slope	12dB/Oct	12dB/Octave	12dB/Octave	12dB/Octave
Remote Level Control (sub)	Optional with MPS-R1	N/A	N/A	Optional MPS-R1
TURN ON				
DC Offset	Yes	No	Yes	Yes
Remote	Yes	Yes	Yes	Yes
FUSE RECOMMENDATION				
	Inline fuse must be used within 16"(400mm) of battery			
	80A	50A	60A	60A
DIMENSIONS (HxWxL)	1.9" (48mm) x 5.8" (148mm) x 11.6" (294.5mm)	1.9" (48mm) x 5.8" (148mm) x 7.7" (195.5mm)	1.9" (48mm) x 5.8" (148mm)x 8" (203.5mm)	1.9" (48mm) x 5.8" (148mm) x 7.2" (181.5mm)





MDSP6/4A



MDSP8/4A



MDSP8/6A



MDSP10/8A

MDSP DSP AMPLIFIERS

Welcome to the next chapter in Morel’s high-fidelity legacy. Developed to meet the demands of modern vehicle integration, the MDSP amplifier series delivers unmatched performance, flexibility, and sound quality in a remarkably compact design. Whether you’re upgrading an OEM system or building a high-end custom setup, MDSP amplifiers provide the tools and power to get the job done right.

At the heart of every MDSP amplifier is Morel’s signature approach to sound: authentic, musical, and uncompromising. Engineered with best-in-class power output, models offer up to 80W x 4 + 160W x 4 RMS, delivering clean, powerful output to drive any system with confidence.

Featuring high-resolution DSP with parametric and graphic EQ, crossover, time-alignment, phase control, and input/output EQ per channel, the MDSP line ensures seamless, system-wide fine-tuning. Installation is streamlined with high-voltage speaker-level inputs, signal summing, and Morel’s Speaker Load Assurance Module (SLAM), which keeps factory amplifiers stable when integrating with OEM systems. Additional features like start/stop compatibility, automatic source switching, and TuneLink for multi-amp tuning from a single device make setup efficient and flexible. Bluetooth streaming and DRC compatibility provide users with complete control at their fingertips.

Compact yet powerful, MDSP amplifiers embody Morel’s renowned sound quality and reliability—built for installers, trusted by professionals, and loved by music enthusiasts.

MDSP Amplifiers	MDSP10/8A	MDSP8/6A	MDSP8/4A	MDSP6/4A
RMS POWER @ 14V				
4 Ohm	80W x 4 + 160W x 4	80W x 2 + 160W x 4	80W x 4	25W x 4
Bridgeable	320 x 2 (Ch. 5-8)	320 x 2 (Ch. 3-6)	150 x 2	-
INPUTS				
High Level (Speaker)	8 Ch	8 Ch	8 Ch	4 Ch
Low Level (RCA)	2 Ch	2 Ch	2 Ch	-
Optical	1	1	1	-
USB OTG	1	1	1	-
Bluetooth	Optional	Optional	Optional	Built In
DRC Connect (optional controller)	Yes	Yes	Yes	Yes
OUTPUTS				
Amplified (Speaker)	8 Ch	6 Ch	4 Ch	4 Ch
Low Level (RCA)	2 Ch	2 Ch	4 Ch	2 Ch
SPECIFICATIONS				
Sample Rate	24 Bit / 96kHz	24 Bit / 96kHz	24 Bit / 96kHz	24 Bit / 96kHz
THD+N	<0.03%	<0.03%	<0.03%	<0.2%
Frequency Response	20-20,000Hz	20-20,000Hz	20-20,000Hz	20-20,000Hz
S/N Ratio (A-weighted)	>98dB	>98dB	>98dB	>96dB
DIMENSIONS				
Height (H)	2.03" (51.6mm)	2.03" (51.6mm)	2.03" (51.6mm)	1.37" (35mm)
Width (W)	5.3" (136mm)	5.3" (136mm)	5.3" (136mm)	3.5" (90mm)
Length (L)	10.82" (275mm)	10.82" (275mm)	7.08" (180mm)	4.5" (116mm)





INTEGRATION

Bespoke DirectFit speaker systems
for exceptional HiFi sound quality

BMW INTEGRATION

The tailor-made BMW Integration series are offered in two performance levels – REFERENCE for the audio purists, and PERFORMANCE for those seeking superior, affordable upgrades. Each of the speaker systems use Morel’s unique DirectFit mounts and plug-and-play wire harness speaker systems for a true drop-in solution that requires no cutting. Regardless which level you choose, the BMW Integration systems are guaranteed to deliver a truly dynamic listening experience for your modern BMW. Also fits many Mini models.

The IR-BMW systems were engineered to deliver true audiophile levels of performance. Intended to be used with aftermarket amplification, each IR speaker uses our powerful Hybrid magnet systems with large EVC motors, giving them unmatched resolution, tonality and power handling. DirectFit ensures getting the highest-fidelity sound in your BMW is easily done.

The IP-BMW plug-and-play speakers systems deliver a truly dynamic listening experience with the warmth and detail our speakers are renowned for. Engineered to be highly efficient, these systems perform astonishingly well with OEM amplification, yet use a robust design that allows for modest power aftermarket amplification. With the IP-BMW, getting high-performance sound in your vehicle has never been easier or more accessible.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
IR-BMW42 / IR-BMW42-CTR	4" 2-way	100	300	92	50-25,000
IR-BMW4INT / IRBMW4INT-CTR	4" Point Source	80	250	90	80-25,000
IP-BMW42 / IP-BMW42-CTR	4" 2-way	50	120	89	80-22,000
IP-BMW4C / IP-BMW4C-CTR	4" Coaxial	40	120	89	80-22,000
IP-BMWSUB82	8" Subwoofer 2Ω	180	500	84	20-1000



MERCEDES BENZ INTEGRATION

Finally, a speaker system worthy of complimenting the icon of luxury, Mercedes Benz. As part of our Integration Reference, the IR-MBZ are a series of bespoke speaker kits specially crafted to elevate the sound performance in Mercedes Benz vehicles.

Inspired by our highly esteemed Hybrid series speakers, each IR-MBZ speaker system is a technical tour de force that was designed to seamlessly integrate into many modern Mercedes-Benz without modifications. Available speaker packages include the IR-MBZ42 2-way component system and the IR-MBZ4INT point source system, as well as center channel options of both models. Each of these kits feature Morel's DirectFit diecast aluminum chassis and mounting brackets, as well as plug-and-play factory wire connection for easy installation.

Also available are the IR-MBZSUB82 subwoofers. These factory replacement subwoofers feature Morel's EVC motor and carbon fiber cones to deliver powerful, rich bass, and easily mount into the factory footwell locations using Morel's DirectFit technology.

Each of the IR-MBZ speakers are highly efficient allowing them to be used with the factory amplifier, yet they truly shine with the use of aftermarket power amplifier as a result of their high power handling.

Mercedes Benz owners can now enjoy an inspirational listening experience with the tonal purity and detailed precision that is as remarkable as their vehicle.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
IR-MBZ42 / IR-MBZ42-CTR	4" 2-way	100	300	92	50-25,000
IR-MBZ42 / IR-MBZ42-CTR	4" Point Source	80	250	90	80-20,000
MBZSUB82-1L/ MBZSUB82L-V2	8" Subwoofer	150	500	85	20-600



UNIVERSAL INTEGRATION

Universal Performance Component Systems

The IP-UNI62 and IP-UNI82 are 6.5-inch and 8-inch 2-way component systems developed to bridge the gap between entry-level plug-and-play upgrades and premium vehicle-specific audio solutions. Designed as a universal platform, they deliver Morel's signature musicality, detail, and dynamics while offering exceptional installation flexibility across a wide range of vehicle applications.

At the heart of each system is Morel's renowned 25mm soft dome tweeter, providing smooth, natural high frequencies with outstanding clarity and accuracy. Paired with high-performance midbass drivers and optimized inline crossovers, the IP-UNI Series creates a balanced and engaging listening experience with impressive soundstage, dynamics, and tonal realism.

Engineered for broad vehicle compatibility, the IP-UNI Series features optimized dimensions and ultra-shallow mounting depths that allow installation in locations where conventional high-performance speakers may not fit. Morel's innovative inverted neodymium motor design reduces mounting depth while maintaining excellent efficiency, control, and low-frequency performance.

The value proposition of the IP-UNI Series lies in its ability to deliver premium sound quality without the complexity, cost, or fitment limitations often associated with high-end aftermarket speakers. For installers, it offers a versatile solution that fits a broad range of vehicles. For listeners, it provides a meaningful upgrade in clarity, detail, and musical enjoyment over conventional OEM replacement speakers.

MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
IP-UNI62	6½" 2-way	80	150	88	45-20,000
IP-UNI82	8" 2-way	100	200	92	40-20,000



HYUNDAI | SUZUKI | TOYOTA INTEGRATION

Seamless OEM Integration with True Hi-Fi Performance

Morel expands its DirectFit range with a new series of speaker systems designed specifically for select Hyundai, Suzuki, and Toyota vehicles. Built to replace factory systems with precision and ease, these new kits include 6.5" component systems and 6.5" and 5.25" coaxial speakers, all engineered to deliver Morel's renowned sound quality with minimal installation effort.

Each system is based on Morel's soft dome tweeter, known for its natural, smooth high-frequency response, and pairs with high-sensitivity woofers designed to perform exceptionally well with OEM audio systems. This design also offers the flexibility to upgrade to aftermarket amplifiers or DSP-powered systems, scaling effortlessly with more advanced installations.

Installation is entirely plug-and-play, utilizing vehicle-specific wiring adapters that allow for a clean, secure connection without any wire cutting or splicing. The speakers drop directly into factory mounting points, retaining the original vehicle aesthetic while significantly improving acoustic performance.

With a focus on efficient performance, reliable build quality, and a straightforward installation process, the new DirectFit speaker systems bring Morel's high-fidelity signature sound to a wider range of drivers looking for a better in-car listening experience without compromising factory functionality or reliability.

MODEL	SIZE	Configuration	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
Hyundai						
IP-HYU62	6½"	2-way	90	180	92	50-20,000
IP-HYU6C	6½"	Coaxial	80	160	91	55-20,000
IP-HYU5C	5"	Coaxial	70	140	89.5	55-20,000
Suzuki						
IP-SUZ62	6½"	2-way	90	180	92	50-20,000
IP-SUZ6C	6½"	Coaxial	80	160	91	55-20,000
Toyota						
IP-TOY62	6½"	2-way	90	180	92	50-20,000
IP-TOY6C	6½"	Coaxial	80	160	91	55-20,000



IP-SUZ62 | IP-SUZ6C

IP-HYU62 | IP-HYU6C | IP-HYU5C

IP-TOY62 | IP-TOY6C

FORD | GM | TOYOTA INTEGRATION

Built for adventure, the Ford Bronco deserves an audio system that can match its spirit. Morel's IR-BRKIT-6 and IR-BRKIT-7 DirectFit plug-and-play speaker upgrade kits are engineered specifically for 2021+ Ford Bronco models, delivering premium sound quality through a seamless plug-and-play installation.

Both systems are designed to install perfectly into the Bronco's factory speaker locations and directly connect to factory wire harnesses. Based on the Hybrid series speakers, each kit includes IR-BR4INT 4-inch point-source speakers, combining the woofer and tweeter into a single acoustic center for exceptional imaging, clarity, and tonal balance. Powerful IR-BR6W 6.5-inch woofers provide rich midbass performance, impressive dynamics, and the natural musicality that defines the Morel listening experience.

Whether your Bronco is equipped with the base audio or B&O audio system, Morel has you covered. The IR-BRKIT-6 works with base audio systems, whereas the IR-BRKIT-7 was developed for the B&O platform with the addition of a dedicated 4-inch center channel speaker.

To complete the system, the IR-BRSUB-PS10 is a custom-engineered tailgate enclosure housing Morel's acclaimed Ultimo PowerSlim PS104D subwoofer. Designed specifically for the Bronco, the vented enclosure installs without drilling or permanent vehicle modifications, delivering deep, controlled bass while preserving the vehicle's functionality and appearance.

Morel highly recommends powering this system with aftermarket amplification, such as our MDSP amplifiers. With no cutting, drilling, or fabrication required, these kits provide Bronco owners with a true high-fidelity upgrade that transforms every drive.

MODEL	SIZE	Configuration	POWER HANDLING (WRMS)	PEAK POWER (W)	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)
IP-TOY82	8"	2-way	100	200	92	40-20,000
IP-FORD82	8"	2-way	100	200	92	40-20,000
IP-GM82	8"	2-way	100	200	92	40-20,000



FORD BRONCO INTEGRATION

Built for adventure, the Ford Bronco deserves an audio system that can match its spirit. Morel's IR-BRKIT-6 and IR-BRKIT-7 DirectFit plug-and-play speaker upgrade kits are engineered specifically for 2021+ Ford Bronco models, delivering premium sound quality through a seamless plug-and-play installation.

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MODEL	SIZE & CONFIGURATION	POWER HANDLING (WRMS) / PEAK POWER (W)	NOMINAL IMPEDANCE	SENSITIVITY (2.83V/1M) (dB)	FREQUENCY RESPONSE (Hz)	RECOMMENDED LOWPASS CROSSOVER	RECOMMENDED HIGHPASS CROSSOVER
IR-BR4INT	4" Point-Source	80/250	4Ω	92	80 - 25,000	N/A	300Hz @ 12dB
IR-BR6W	6.5" 2-Woofer	140/600	4Ω	91	35 - 3000	300Hz @ 12dB	80Hz - @ 12dB
IR-BRSUB-PS104	10" Subwoofer	700/1800	2Ω	82	20-150 (in car)	80Hz @ 12dB	N/A



TWEETER DESIGN AND TECHNOLOGY

Innovative technology and a distinct design are at the heart of Morel's R&D philosophy. Our expansive know-how and total control over the entire design and manufacturing process, allowed us to develop products that effectively overcome the acoustic challenges of car audio and deliver the most innovative and best natural sounding speakers.

The following are some of the iconic technological traits that have become the foundation of Morel speaker designs:

LOTUS GRILLE

Inspired by the Lotus flower, engineered to offer an acoustic transparent solution to protect the loudspeakers whilst offering a beautiful design element. The specific pattern minimizes the "horn" effect found in traditional grilles.

IMPROVED DISPERSION WAVEGUIDE (IDW)

Designed to enhance sound dispersion while controlling diffraction and phase error, the IDW audibly improves coherency, transparency and detail in the high frequency bandwidth.

ACUFLEX™ TECHNOLOGY

A specially engineered damping compound hand-applied to the soft domes, adding rigidity and damping, which greatly improves the clarity and bandwidth of the tweeter. The Acuflex™ diaphragm exhibits controlled cancelling break up (accurate-flexing), meaning each break-up mode is counteracted by another in the opposite direction, enabling smooth frequency response.

TALL DOME GEOMETRY

A specially designed tall dome uses a consistent radius to ensure wide dispersion and excellent off-axis performanc

HEXATECH™ ALUMINIUM VOICE COIL

Made from 100% aluminum wire shaped like a honeycomb, the Hexatech™ voice coil reduces air gaps in the coil windings, thereby increasing efficiency by up to 20%.

UNDER-HUNG VOICE COIL

An under-hung voice coil features a voice coil winding height shorter than the magnetic gap. This means the voice coil is positioned within the magnetic energy field at all times leading to greater articulation and transient response.

TITANIUM BOBBIN

Titanium bobbin (voice coil body) is known for its high rigidity, lightweight, heat transfer and conductive characteristics. Our R&D team was able to decrease eddy currents inside the magnetic gap, improve heat dissipation considerably, lower distortion and improve power handling. Despite the tremendous cost and new sophisticated manufacturing processes, the titanium bobbin delivered a tonally balanced, highly accurate, and exceptionally fast transient transducer.

EXTERNAL VOICE COIL (EVC)™ TECHNOLOGY

Morel speakers with EVC™ technology utilize voice coils that are up to three times larger than those used in conventional loudspeakers, enabling improved heat dissipation, power handling and linearity. The EVC™ design moves the magnetic motor system to within the voice coil, eliminating stray magnetic flux by effectively directing all the magnetic energy to the voice coil. The EVC architecture is over 90% more efficient than conventional design, magnetically shielded, and highly compact.

ELECTRO-MAGNETIC LINEARITY OFFSET (ELO)

Transducers generate eddy (electro-magnetic) currents that force asymmetry in the magnetic flux. These currents are largely responsible for non-linearity and intermodulation distortion in a speaker. To offset this phenomenon, a copper shorting ring is placed on the top-plate and pole-piece to counter the magnetic flux modulation created by eddy currents, helping to reduce distortion and smooth frequency response.

SHIELDED MAGNET TECHNOLOGY

The modern car environment is highly sensitive to stray magnetic fields. Vehicles now use several computer control devices throughout the car, and conventional non-shielded speakers can be a threat to the vehicle's electrical integrity. Morel speakers featuring the company's EVC™ technology are more than 90% shielded—safe for installation in today's high-tech vehicles.

INTEGRATED REAR CHAMBER (IRC)

A low resonance frequency of the tweeter is critical in order to achieve a low crossover point, flat frequency response, and a natural sound reproduction. The highly damped integrated rear chamber (IRC) was designed to decompress the air modulation behind the tweeter diaphragm.

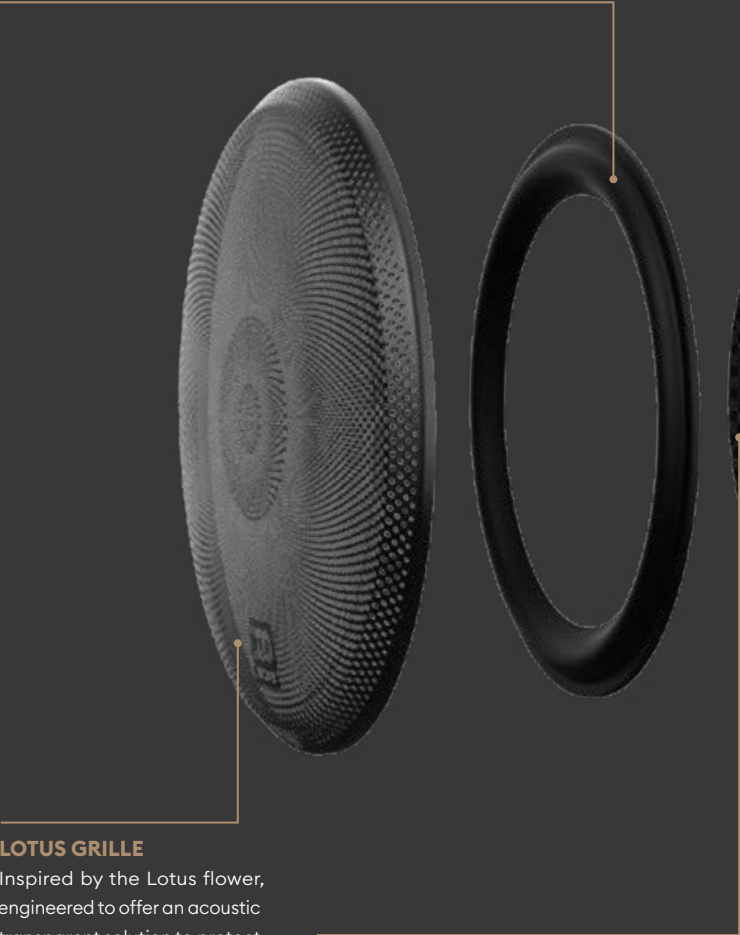
MAGNET TECHNOLOGY

Morel's experience in motor design has allowed it to harness the magnetic energy in extremely effective manners. There are four key motor systems used –High Grade Ferrite, Neo motor (NMM), double magnet (DMM), and Hybrid motor (HMM) systems. Each system is designed to achieve a very precise balance of size, weight, and magnetic flux to ensure optimization of the electro magnetics characteristics for each transducer.

WOOFER DESIGN AND TECHNOLOGY

SURROUND

The surround plays a major role in setting the linearity and stability of the cone-assembly. Great effort is made to carefully engineer the geometry and stiffness of each surround based on the intended use. Our surrounds employ a wide range of high-grade materials such as natural rubber and foam composite to ensure accuracy and linearity.



LOTUS GRILLE

Inspired by the Lotus flower, engineered to offer an acoustic transparent solution to protect the loudspeakers whilst offering a beautiful design element. The specific pattern minimizes the "horn" effect found in traditional grilles.

TRIPLE LAYER COMPOSITE (TLC)

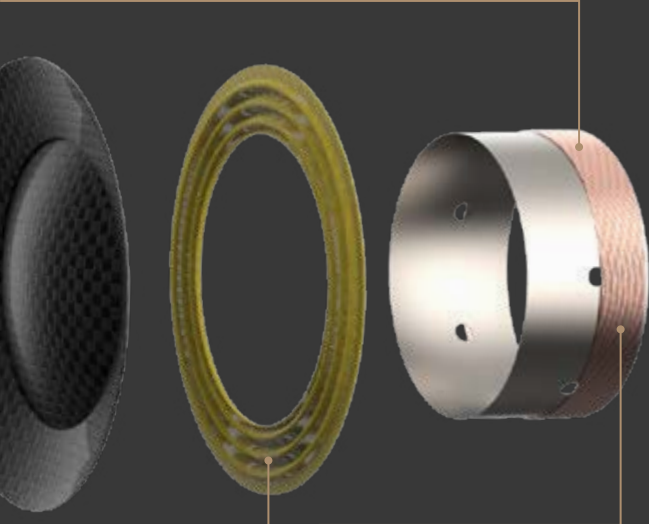
An advanced one-piece cone structure consisting of a woven carbon-fiber top skin, a Rohacell foam core and a non-woven carbon fiber skin beneath. This proprietary cone structure offers the ultimate balance of weight, ultra-high stiffness and high self-damping characteristics.

HEXATECH™ ALUMINIUM VOICE COIL

Made from 100% aluminum wire shaped like a honeycomb, the Hexatech™ voice coil reduces air gaps in the coil windings, thereby increasing thermal efficiency by up to 20%.

TITANIUM BOBBIN

Titanium bobbin (voice coil body) is known for its high rigidity, light weight, heat transfer and conductive characteristics. Our R&D team was able to decrease eddy currents inside the magnetic gap, improve heat dissipation considerably, lower distortion and improve power handling. Despite the tremendous cost and new sophisticated manufacturing processes, the titanium bobbin delivered a tonally balanced, highly accurate, and exceptionally fast transient transducer.



PFS™ - PROGRESSION FIELD SYMMETRY ENGINEERING

Produces longer linear excursion enabling the spider and surround to reach optimal performance especially at high output levels by progressively acting as "shock absorbers" to prevent voice coil displacement and bottoming.

EXTERNAL VOICE COIL (EVC)™ TECHNOLOGY

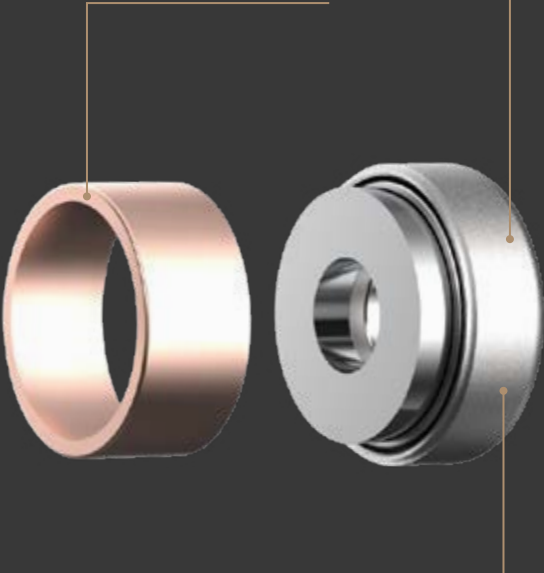
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UNDER-HUNG VOICE COIL

An under-hung voice coil features a voice coil winding height shorter than the magnetic gap. This means the voice coil is positioned within the magnetic energy field at all times leading to greater articulation and transient response.

ELECTRO-MAGNETIC LINEARITY OFFSET (ELO)

Transducers generate eddy (electro-magnetic) currents that force asymmetry in the magnetic flux. These currents are largely responsible for non-linearity and intermodulation distortion in a speaker. To offset this phenomenon, a copper shorting ring is placed on the top-plate and pole-piece to counter the magnetic flux modulation created by eddy currents, helping to reduce distortion and smooth frequency response.

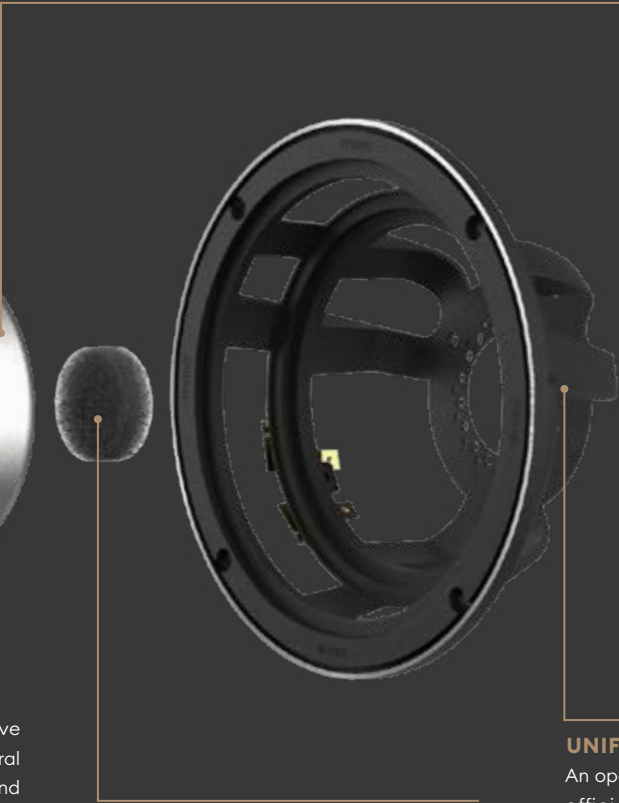


SHIELDED MAGNET TECHNOLOGY

The modern car environment is highly sensitive to stray magnetic fields. Vehicles now use several computer control devices throughout the car, and conventional non-shielded speakers can be a threat to the vehicle's electrical integrity. Morel speakers featuring the company's EVC™ technology are more than 90% shielded—safe for installation in today's high-tech vehicles.

MAGNET TECHNOLOGY

Morel's experience in motor design has allowed it to harness the magnetic energy in extremely effective manners. There are four key motor systems used –High Grade Ferrite, Neo motor (NMM), double magnet (DMM), and Hybrid motor (HMM) systems. Each system is designed to achieve a very precise balance of size, weight, and magnetic flux to ensure optimization of the electro magnetics characteristics for each transducer.



C.A.R. FILTER™ (CONTROLLED ACOUSTIC RESISTANCE)

The C.A.R. Filter™ improves the acoustic loading by controlling airflow within the driver, mimicking the effects of a cabinet while improving power handling by 30%. This provides greater control over the cone movement for improved bass dynamics.

UNIFLOW™ CHASSIS

An open design that is aerodynamically efficient to optimize venting and decompression allowing sound waves to flow uniformly and smoothly. Its geometric shape also eliminates interference with the woofer's moving components, enabling the use of a low-profile spider for greater support and stability.



unleash the music