



# 4C Spider

## All-new 2015 Alfa Romeo 4C Spider PRESENTATION NOTES

With a distinct combination of advanced technologies, race-inspired performance and seductive Italian style, Alfa Romeo vehicles are authentic and fully respectful of the brand's DNA, creating an infusion of body and machine for an exhilarating driving experience.

- Alfa Romeo's brand DNA separates it from all the other marques with three key principles:
  - Functional, drop-dead-gorgeous Italian style
  - Race-inspired performance
  - Advanced technologies
- Product is at the forefront of the Alfa Romeo brand's return to North America, and the 2015 Alfa Romeo 4C and 4C Spider spearhead the course for the storied Italian brand's comeback
- The all-new Alfa Romeo 4C, and now 4C Spider, are the purest formation of the brand's DNA and mark the return of "the great Alfa Romeos"
  - The driver is the focus; the integral part and the completion of the machine – completely immersed with direct steering feedback, dynamic throttle response and immediate shifting and braking reactions
- The commitment to the Alfa Romeo brand is unprecedented
  - The product pipeline is locked and loaded with eight all-new Alfa Romeo vehicles by 2018, as part of a \$6 billion commitment to this legendary brand
  - Each of these all-new Alfa Romeo vehicles are designed and engineered to be fully authentic and respectful of the brand's DNA and racing traditions
  - Following the 4C and 4C Spider, another all-new Alfa Romeo vehicle will be revealed in 2015
  - In Italy:
    - Two senior heads from Ferrari lead Alfa Romeo's hand-selected skunk works team of researchers and developers
- The Alfa Romeo team continues to expand, assembled with:
  - The best technical resources, coupled with the best training
  - The best experience from the best universities
  - By the end of 2015, more than 1,000 dedicated engineers



# 4C Spider

## – In North America:

- A dedicated Alfa Romeo North America team is in place
- An Alfa Romeo dealer network with more than 100 Alfa Romeo dealerships that will grow to approximately 200 by early 2016

## Overview

### All-new 2015 Alfa Romeo 4C Spider Delivers Race-inspired Performance, Advanced Technologies, Seductive Italian Style, and now an Even More Exhilarating Driving Experience With Open-air Freedom

- All-new Alfa Romeo 4C Spider's open-air performance cockpit and mid-engine proportions draw from more than 100 years of groundbreaking and functional Italian design
- Unique carbon fiber windshield frame and available carbon fiber "halo" highlight 4C Spider's ultralight carbon fiber monocoque and aluminum chassis structures, which enable an incredible power-to-weight ratio and supercar-level performance
- Innovative and unique technological solutions: all-aluminum 1750 direct-injection, turbocharged, intercooled engine with dual variable-valve timing paired to the blistering fast Alfa TCT (twin-clutch transmission) and Alfa DNA selector with four adjustable drive modes
- All-new available Akrapovič dual-mode exhaust system features dual, center-mounted tips with carbon fiber surround and signature Alfa Romeo resonant sound (late availability)
- Handcrafted in Modena, Italy, Alfa Romeo 4C Spider combines two excellences – the performance engineering of Alfa Romeo and the craftsmanship of Maserati manufacturing
- All-new 2015 Alfa Romeo 4C Spider arrives in U.S. and Canadian dealerships this summer

Adding to the Alfa Romeo brand's legendary racing history and the exciting experience of open-air motoring, the all-new 2015 Alfa Romeo 4C Spider debuts with panoramic views complemented with a signature Alfa exhaust note, plus the essential sportiness of the award-winning 4C, handcrafted in Modena, Italy; groundbreaking and seductive Italian style; state-of-the-art Formula 1 inspired carbon fiber monocoque chassis that enables an incredible power-to-weight ratio; advanced technologies, including the all-aluminum 1750 turbocharged and intercooled engine with direct-injection and variable-valve timing that enable supercar-level performance.

"Spiders have always been at the very core of the 'Great Alfa Romeos,' and our all-new 4C Spider builds on the brand's motorsport and technology heritage for an open-air experience that is pure driving exhilaration," said Reid Bigland, Head of Alfa Romeo North America. "From its track-proven 1750 turbocharged engine, to its hand-laid carbon fiber monocoque chassis, the 4C Spider takes the innovation and ingenuity of the 4C Coupe and delivers an open-air experience without sacrificing any of its supercar-level performance and capability."



# 4C Spider

## “4C” and the legacy of Alfa Romeo

The Alfa Romeo 4C Spider name recalls the brand’s great sporting tradition. The acronyms 8C and 6C in the 1930s and 1940s distinguished racing and road cars fitted with powerful eight- and six-cylinder engines:

- Like the award-winning 4C, the all-new 2015 Alfa Romeo 4C Spider model’s designation is a return of “the great Alfa Romeos” and continues this tradition with the innovative all-aluminum 1750 turbocharged direct injection and intercooled “four-cylinder” engine, delivering an impressive 136 horsepower per liter
- “Spider” is among the most exhilarating experiences in motoring and represents the very core of Alfa Romeo’s DNA and heritage:
  - Open air and panoramic views
  - Seating for two
  - Unforgettable soundtrack of an Italian performance-tuned engine and exhaust
- The 4C Spider draws from a bloodline that includes some of the most purpose-built performance models, which illustrate lightness and efficiency with undeniable Alfa Romeo style:
  - The aluminum-bodied 8C 2900 B Touring (1938)
  - The 1900 C52 “Flying Saucer” (1952), which could exceed 140 mph (230 kph)
  - And most notably the legendary 33 Stradale (1967), with its mid-engine and magnesium alloy and steel tube chassis “clothed” by groundbreaking styling, which is functional and distinctly Italian
- It is now the 4C Spider’s turn to deliver the driving thrill, performance and unforgettable emotion that only an Alfa Romeo Spider provokes

## Exterior Design

### Groundbreaking and seductive Italian style

Continuing the groundbreaking theme of seductive Italian style, advance technology and race-inspired performance, the all-new 2015 Alfa Romeo 4C Spider builds upon the brand’s journey, which was embarked upon with the 8C Competizione (2008), 8C Spider (2009), 4C (2015), and most recently, the 4C Spider Concept, which debuted at the 84th International Geneva Motor Show.

- Inspired by the 33 Stradale (1967), the all-new Alfa Romeo 4C Spider transcends this legendary racecar’s mid-engine body forms and follows its purposeful and lightweight performance tradition
  - Sheet-molded compound (SMC) composite panels form its seductive Italian design and “cloth” its state-of-the-art carbon fiber monocoque chassis and all-aluminum 1750 turbocharged, intercooled and direct-injected engine
- Covering the “beating heart” of this Italian supercar is a deck-lid with three functional heat extractors and an aerodynamically tuned spoiler



# 4C Spider

- It's from the 4C Spider's "beating heart" where every other design element starts:
  - Two muscular forms straddle the rear deck lid and elevate the body above the cockpit's beltline for visual strength and foundation for the black or available carbon fiber "halo" (late availability)
  - The rear fascia and round rear LED illuminated tail lamps blend into the muscular rear wings for a powerful stance, while stylistically incorporating large functional air intakes to cool the engine
  - Below, dual exhausts at the corners highlight 4C Spider's supercar stance
  - Inspired by the 4C Spider Concept, an all-new, Akrapovič dual-mode center-mounted performance exhaust system will be available on the 4C Spider (late availability)
- On each side of the all-new 4C Spider, the sculpted air intakes spring a muscular and dynamic form that lead elegantly into the headlamps
- Highlighting its exotic monocoque is a carbon fiber windshield frame, which promotes strength and lightness
- Attached to the windshield frame is the removable, stowable cloth roof, or an available exposed carbon fiber hardtop (late availability)
- Leading from the 4C Spider's windshield and down the hood are two muscular hood forms, which naturally conclude at the signature Alfa Romeo shield-shaped grille
- Together with the two side air intakes designed in the front fascia, the 4C Spider forms the famous "Trilobo" within which the iconic logo is placed – a significant facet of Alfa Romeo's distinctive design

## Supercar proportions and aerodynamic efficiency

- The Alfa Romeo 4C Spider's compact dimensions are truly unique, adding to its agility and lightweight design
- The 4C Spider exudes proportions of exotic supercars:
  - Length – 157.0 inches (3,989 mm)
  - Width – 73.5 inches (1,868 mm)
  - Overall height – 46.7 inches (1,185 mm)
- Thanks to the monocoque's inherent rigidity, Alfa Romeo engineers were able to:
  - Minimize structural differences between the 4C and 4C Spider
  - Minimal increase in weight of only 22 lbs. (10 kg) over the 4C



# 4C Spider

- The design and engineering teams worked together to achieve maximum aerodynamic efficiency levels with a coefficient of drag (Cd) of 0.341
- Additionally, the Alfa Romeo 4C Spider's design contributes to increased stability at higher speeds

## Interior Design

### Performance-focused cockpit

- The all-new Alfa Romeo 4C Spider's cockpit is inspired from racing; purpose built with only the essential driving components stylistically integrated:
- Two composite-framed sport seats with standard leather and an exposed carbon fiber monocoque exemplify 4C Spider's race-inspired technologies
- A driver-oriented cockpit includes a flat-bottom, leather performance steering wheel with paddle-shifters, and aluminum pedals speak to the brand's racing spirit
- Fully wrapped, premium leather interior with accent stitching is standard on 4C Spider
- For an added touch of exclusivity and technology, unique carbon fiber vent surrounds and other carbon fiber trim pieces are available as part of a new Carbon Fiber Trim Package
- 7-inch full-color driver information display (DID) cluster highlights the use of advanced technology
  - The DID illustrates vehicle information through high-impact graphics to keep the driver focused on the road, or track, ahead
- New Alpine premium audio system
  - Designed for audiophiles, this new radio features premium sound quality and multiple connectivity and media options, including:
    - Handsfree Bluetooth phone
    - Bluetooth streaming
    - USB port
    - iPod interface
    - CD/MP3 capabilities
    - Access to HD radio and SiriusXM Radio for a high-definition broadcast audio experience

## Selections

### A vivid array of colors, materials and design details

Adding to the excitement of owning an Alfa Romeo are the personalization options that each client can select:

- Seven exterior colors are available for the 4C Spider, and include:
  - Rosso Alfa (red)
  - Black



# 4C *Spider*

- White
  - Basalt Gray Metallic
  - Rosso Competizione Tri-coat (red)
  - Madreperla White Tri-coat
  - All-new Giallo Prototipo (yellow)
- Complementing the 4C Spider's exterior are six interior combinations, which include two seat material choices:
    - Black leather with Red accent stitching
    - Red leather with Black accent stitching
    - Black leather with Giallo (yellow) accent stitching (new – available exclusively with Giallo Prototipo exterior color)
    - Black racing leather seats with microfiber inserts and Red accent stitching (with Track Package)
    - Black racing leather seats with microfiber inserts and Yellow accent stitching with Track Package; new – available exclusively with Giallo Prototipo exterior color
    - For a bespoke look, and all new to the 4C model lineup, a contrasting Tobacco leather seat accompanied with a Black leather interior accented with Tobacco stitching will be offered (late availability)
  - Six wheel choices, including four all-new wheel designs with staggered fitment are offered on the 4C Spider, which include:
    - Alloy wheels: 17 x 7.0-inch (front) and 18 x 8.0-inch (rear)
      - Silver (standard)
      - Dark Gray
    - For added style and performance, new fan spoke forged wheels 18 x 7.0-inch (front) and 19 x 8.5-inch (rear)
      - Silver
      - Dark Gray
    - Like the 4C Coupe, the signature five-hole design forged wheels in 18 x 7.0-inch (front) and 19 x 8.5-inch (rear) are also available
      - Silver
      - Dark Gray
  - Completing the look are four brake caliper color choices, including Silver (standard) and available in Red, Yellow or Black
  - For maximum handling performance, the all-new Alfa Romeo 4C Spider is available with the Track Package, which includes:
    - High-performance shock absorbers



# 4C Spider

- Larger front- and rear-sway bars
- Available Pirelli P-Zero “AR Racing” tires
- Performance flat-bottom steering wheel with microfiber inserts
- Carbon fiber exterior mirrors
- Carbon fiber gauge cluster bezel
- Availability of Black leather performance seats with microfiber inserts and Red or Yellow accent stitching

## Engineering

### Mid-engine layout with a unique set of technological solutions

Thanks to its mid-engine layout, advanced technology and compact size, the all-new Alfa Romeo 4C Spider demonstrates its precision, agility and performance credentials with a top speed of 160 miles per hour (mph), 0-to-60 mph in 4.1 seconds, 1.1 g of lateral acceleration and 1.25 g of maximum braking deceleration.

### Ultra lightweight architecture and materials derived from Formula 1

The all-new Alfa Romeo 4C and 4C Spider feature a combination of state-of-the-art materials to achieve extraordinary stiffness and strength, plus the torsional stiffness, maximized agility and optimized center of gravity to take on the most challenging tracks.

	4C Spider	4C
Dry Weight	2,337 lbs. (1,060 kg)	2,315 lbs. (1,050 kg)
Curb Weight	2,487 lbs. (1,128 kg)	2,465 lbs. (1,118 kg)
Pounds/Horsepower	10.5 lbs./hp (4.8 kg/hp)	10.4 lbs./hp (4.7 kg/hp)
Monocoque Chassis	236 lbs. (107 kg)	
Weight Distribution	41 / 59 front-to-rear	
0-to-60 mph Acceleration	4.1s	
60-to-0 mph Braking	Under 100 feet	
Braking Deceleration	1.25 g	
Top Speed	160 mph (258 kph)	
Lateral Acceleration	1.1 g	

• Delivering the ultra-lightweight architecture needed for maximum performance and dynamic efficiency, Alfa Romeo engineers looked to Formula 1 and only the most advanced supercars for state-of-the-art materials and solutions

- CARBON FIBER

- A monocoque chassis made entirely of unidirectional, “pre-preg” carbon fiber layers are hand-laid for extraordinary stiffness and strength





# 4C Spider

- “Pre-preg” technology – a formulated heat-cured resin matrix system that features reinforced manmade carbon fibers
- 4C Spider’s “unidirectional” carbon fiber runs in the same direction enabling it to be five times stronger than conventional materials that are “isotropic,” or have the same strength in all directions
- At 236 pounds, the highly exotic carbon fiber monocoque chassis delivers a material performance that is:
  - Three-times stronger than steel
  - Seven-times lighter than steel
- The monocoque chassis’ inherent rigidity enabled minimal structural differences between the 4C and 4C Spider
  - A unidirectional carbon fiber windshield frame provides a technical look, while delivering header strength and a low center of gravity
- ALUMINUM
  - Lightweight aluminum front- and rear-chassis structures and an engine-mounting frame complete the competition-grade architecture
  - A specially contoured aluminum rollbar (underneath the black or available carbon fiber “halo”) provides mounting points for the new rear deck lid
- COMPOSITE
  - Alfa Romeo engineers continued the use of state-of-the-art materials by creating the bodywork entirely of SMC (sheet-molded compound)
    - SMC is a low-density, high-strength composite material that is 20 percent lighter and dimensionally more rigid than steel
  - Carbon fiber and fiberglass reinforced composite sport seats reduce weight and deliver the seating position needed for performance driving
- HIGH-STRENGTH STEEL
  - 4C Spider-specific upper body brackets and engine compartment cross beam maximize torsional rigidity
- THINNER GLASS
  - Alfa Romeo engineers even optimized the windshield and side windows by using 10 percent thinner glass to reduce weight by up to 15 percent

## Maximum road-holding suspension, up to 1.1 g of lateral acceleration

- Race-derived solutions to ensure maximum agility and road-holding performance
- “Superimposed” double wishbone front suspension delivers direct and unfiltered feedback
- Advanced MacPherson rear suspension delivers superb road-holding attributes – even in the most extreme of maneuvers





# 4C Spider

- Front and rear suspensions are made from aluminum and high-strength steel
- Stiffer springs, larger front- and rear-sway bars, and re-tuned shock absorbers for the North American market

## Purist and enthusiast-desired “manual” steering

- Manual steering with 15.7:1 quick-ratio highlights 4C Spider’s visceral driving experience
- Steering-wheel load is maintained as a result of the low vehicle weight

## Powerful stopping power, up to 1.25 g of braking deceleration

- To deliver maximum stopping power and 1.25 g of braking deceleration for 60-0 in under 100 feet, the Alfa Romeo 4C Spider is equipped with four self-ventilating perforated discs and Brembo four-piston aluminum calipers at the front axle
- The brake system is designed for track use, where decisive braking, even under the most intensive conditions, is required

## Staggered wheel and tire fitments for precise handling

- Wheels and tires are staggered in diameter and width to ensure performance, maximum grip and crisp handling
- Standard 17-inch front and 18-inch rear, or available 18-inch front and 19-inch forged wheel and tire combinations

## Powertrain

### “The heart and soul,” the all-aluminum 1750 turbocharged engine with direct injection

The engine is the “beating heart” of any Alfa Romeo, and for the all-new 2015 4C Spider, it beats to an innovative, all-aluminum 1750 turbocharged and intercooled engine with dual (intake and exhaust) continuous variable-valve timing (VVT) that delivers 237 horsepower or an impressive 136 horsepower per liter:

- To ensure exceptional performance and drivability on the racetrack or city streets, the 1750 turbocharged engine features cutting-edge technologies:
  - High pressure direct-injection (2,900 psi / 200 bar) with multi-hole fuel injectors for a more even spray
  - Optimized cylinder head inlet ducts increase performance, while reducing oil consumption and emissions
  - Thin, cast-iron cylinder liners
  - An electric thermostat reduces warm-up times and tailpipe emissions
  - Eight counter weights minimize vibration at higher engine speeds



# 4C Spider

- Intake and exhaust systems are optimized for the 4C Spider's mid-engine layout
- Advanced turbo technology enables the 4C Spider to:
  - Maximize torque at low engine speeds
- A new generation turbocharger with pulse-converter exhaust manifold exploits pressure waves and boost torque at low-engine speeds
- Instantaneous torque delivery, with a peak of 258 lb.-ft. (350 N•m); 80 percent of which is available at only 1,700 rpm
  - A wastegate valve adjusts turbo pressure and improves the engine's efficiency
  - Deliver more response to driver input by increasing combustion efficiency and turbine speed, all while eliminating turbo lag

## Three available exhaust systems, including an all-new Akrapovič dual-mode system

- An all-new Akrapovič (pronounced: a-crop-o-vitch) dual-mode exhaust system with Alfa Romeo's signature resonant sound is designed for the most hardcore motorsport enthusiasts (late availability):
  - Inspired by the 4C Spider Concept
  - Developed in cooperation with the racing exhaust experts at Akrapovič, this beautifully crafted system consists of:
    - Titanium construction
    - Two center-mounted tailpipes
    - Computer-optimized asymmetrical mufflers
    - A dual-mode exhaust valve system and link pipe with resonator to eliminate in-cabin droning
      - Carbon fiber bezel surround for signature Akrapovič look
- Like the 4C, the Alfa Romeo 4C Spider will also offer:
  - Standard exhaust system
- Includes muffler and dual exhaust tips
  - Racing exhaust system
- Removes the muffler and integrates a uniquely designed asymmetric Y-shape system after the catalyst
- For added style, the system features integrated dual concentric exhaust tips



# 4C Spider

Advanced technologies: Alfa TCT and Alfa DNA selector technologies further make the 4C Spider an extension of the driver

## Alfa TCT (twin-clutch transmission)

- Teamed to the all-aluminum 1750 turbocharged engine is a paddle-shifting Alfa TCT tuned specifically for the all-new Alfa Romeo 4C Spider:
  - Uniquely calibrated software adjusts with the Alfa DNA selector system
  - Alfa TCT's gearshifts are most aggressive in the Dynamic and Race modes
  - Rev-matching paddle shifts further make the 4C Spider an extension of the driver
  - Precise gear changes as quick as 130 milliseconds at full throttle
  - For driving convenience in Dynamic, Natural or All-weather modes, the Alfa TCT gearbox can utilize an "auto" mode

## Alfa DNA selector

- The innovative Alfa DNA selector instantaneously optimizes 4C Spider's level of performance
- The four-mode Alfa DNA selector can optimize the following calibrations:
  - Engine
  - Transmission
  - Alfa Electronic Q2 differential
  - Electronic stability control (ESC)
- With a touch of the Alfa DNA selector, the driving dynamics of the Alfa Romeo 4C Spider can be changed to (in order of increasing capability):
  - All-weather – designed to ensure maximum control in adverse weather conditions and enables gentler accelerator input and special engine and brake control logic to match road speed and prevent skidding
  - Natural – enables grand touring comfort and smooth drivability for the Alfa TCT gearbox
  - Dynamic – enables improved driving performance via a more aggressive powertrain calibration and less intrusive ESC setting
  - Race – available while in Dynamic mode, Race mode is the most extreme performance mode, putting the driver in total control of the car under race conditions
- ESC and anti-slip regulation (ASR) are deactivated to allow the driver to control traction through the accelerator pedal
- Alfa Electronic Q2 differential control system remains active for fast exits out of corners or bends
- Launch control – available in Race mode, this calibration enables the Alfa Romeo 4C Spider to deliver 0-to-60 mph acceleration blasts as low as 4.1 seconds as soon as the driver releases the brake



# 4C Spider

## Excellence handcrafted in Modena, Italy

The Alfa Romeo 4C Spider combines two excellences – the racing and performance know how of Alfa Romeo engineering, plus the craftsmanship and manufacturing expertise of Maserati:

- The very best technical and industrial expertise of the Alfa Romeo and Maserati brands were used to develop the 4C and all-new 4C Spider
- Teamwork between the two brands included the integration of the Alfa Romeo Centro Stile with the well-known craftsmanship of the Maserati brand's Modena workshop
- Alfa Romeo 4C and 4C Spider are boosted by the technological contributions of Italian suppliers, who are international leaders in manufacturing high-performance components
- This is a distinguishing trait of Alfa Romeo, a brand with a century of history that to be one of the most famous and popular ambassadors of Italian products around the world

## Racing Heritage

Alfa Romeo started as a high-end coach builder in 1910, and started racing in 1911

- Alfa Romeo victories include:
  - First world championship in Monza (1925)
  - First-ever Formula 1 World Championship Grand Prix (1950)
  - 1951 Spanish Grand Prix (with Juan Manuel Fangio in 1951)
  - 1975 Sports Prototype World Championship (dominated the series through 1977)
  - 1977 World Sports Car Championship
  - Unmatched 11 Mille Miglia wins in a row (1928 – 1938)
    - 9 times with an Alfa Romeo podium, first, second, and third
  - 10 championships at the death-defying Targa Florio endurance race (1923, 1930, 1931, 1932, 1933, 1934, 1935, 1959, 1971, 1975)
  - 4 championships at the 24 hours of Le Mans (1931 – 1934)
  - 17 touring car championships all across Europe
- Plus Alfa Romeo racked up the following championships across the globe:
  - 2 British Touring Car Championships
  - 6 Italian Superturismo Car Championships
  - 5 Spanish Touring Car Championships
  - 2 French Touring Car Championships
  - 7 Historical Gran Turismo Championships
  - 4 European Classic Touring Car Championships



# 4C *Spider*

- 3 Bathurst Unique Fuel Championships
- 9 Makes Championship
- 4 Drivers' Championships
- 10 Italian F3 Championships
- 10 European F3 Championships
- 5 European F3 Cups
- 8 French F3 Championships
- 3 German F3 Championships
- 1 Giro D'Italia (1988)
- 2 Trans-Am Championship (1966, 1970)

[www.alfaromeousa.com](http://www.alfaromeousa.com)

[www.facebook.com/alfaromeousa](https://www.facebook.com/alfaromeousa)

