

2023 FORD MUSTANG

TECHNICAL SPECIFICATIONS



MODEL	Mustang EcoBoost	2.3-Liter High Performance Package	Mustang GT	Mach 1
Construction/materials	Unitized welded steel body, aluminum hood and front fenders	Unitized welded steel body, aluminum hood and front fenders	Unitized welded steel body, aluminum hood and front fenders	Unitized welded steel body, aluminum hood and front fenders
Body style	Fastback coupe, convertible	Fastback coupe	Fastback coupe, convertible	Fastback coupe
Trim level	EcoBoost, EcoBoost Premium	EcoBoost, EcoBoost Premium	GT, GT Premium	Mach 1 and Mach 1 Premium
Final assembly location	Flat Rock, Michigan	Flat Rock, Michigan	Flat Rock, Michigan	Flat Rock, Michigan
DRIVETRAIN				
Standard	Front-engine, Rear Wheel Drive with limited-slip differential	Front-engine, Rear Wheel Drive with limited-slip differential	Front-engine, Rear Wheel Drive with limited-slip differential	Front-engine, Rear Wheel Drive with limited-slip differential
ENGINE CONFIGURATION				
Type	DOHC Ti-VCT direct injection turbocharged I-4	DOHC Ti-VCT direct injection turbocharged I-4	DOHC Ti-VCT dual fuel port direct injection V8	DOHC Ti-VCT dual fuel port direct injection V8
Block/head material	High-pressure cast aluminum block and head	High-pressure die-cast aluminum block with high-tensile liner and high-strength cast aluminum head	Cast aluminum block and head with plasma transfer wire arc cylinder liners	Cast aluminum block and head with plasma transfer wire arc cylinder liners
Displacement	138 cu. in. (2,300 cc)	138 cu. in. (2,300 cc)	302 cu. in. (5,038 cc)	302 cu. in. (5,038 cc)
Bore x stroke	3.45 in. x 3.7 in. (87.55 mm x 94 mm)	3.45 in. x 3.7 in. (87.55 mm x 94 mm)	3.63 in. x 3.65 in. (93.0 mm x 92.7 mm)	3.63 in. x 3.65 in. (93.0 mm x 92.7 mm)
Compression ratio	9.5:1	9.37:1	12.0:1	12.0:1
Valvetrain	DOHC, four valves per cylinder, twin independent variable camshaft timing	DOHC, four valves per cylinder, twin independent variable camshaft timing	DOHC, four valves per cylinder, twin independent variable camshaft timing	DOHC, four valves per cylinder, twin independent variable camshaft timing
Valve diameter/lift	Intake, 31 mm/8.9 mm; exhaust, 28.3 mm/7.8 mm	Intake, 31 mm/8.9 mm; exhaust, 28.3 mm/7.8 mm	Intake, 37.7 mm/13 mm; exhaust, 32.0 mm/13 mm	Intake, 37.7 mm/13 mm; exhaust, 32.0 mm/13 mm
Pistons	Cast aluminum	Cast aluminum, Improved ring pack	Cast aluminum	Cast aluminum
Connecting rods	Forged steel	Forged steel	Forged steel	Forged steel
Crankshaft	Forged steel cross-plane	Forged steel cross-plane	Forged steel cross-plane	Forged steel cross-plane
Induction	Twin scroll with overboost	Twin scroll with overboost	N/A	N/A
Ignition system	Distributor-less with coil-on-plug	Distributor-less with coil-on-plug	Distributor-less with coil-on-plug	Distributor-less with coil-on-plug
Fuel delivery	Direct injection	Direct injection	Dual-fuel, high-pressure direct injection and low-pressure port fuel injection	Dual-fuel, high-pressure direct injection and low-pressure port fuel injection
Engine control system	Powertrain control module	Powertrain control module	Powertrain control module	Powertrain control module
Intake manifold	Composite shell-welded with runner pack	Composite shell-welded with runner pack	Composite shell-welded with runner pack and charge motion control valves	Composite shell-welded with runner pack and charge motion control valves
Exhaust manifold	Three-port integrated into aluminum head	Three-port integrated into aluminum head	Tubular stainless steel headers	Tubular stainless steel headers
Oil capacity/grade	Six quarts 5W-30 with filter (10,000-mile service interval)	Six quarts 5W-30 with filter (10,000-mile service interval)	10 quarts 5W-20 with filter (10,000-mile service interval)	10 quarts 5W-30 with filter (10,000-mile service interval)
Engine cooler/oil cooler type	N/A	N/A	N/A	N/A



	Mustang EcoBoost	2.3-Liter High Performance Package	Mustang GT	Mach 1
Fuel Capacity	15.5 gallons	15.5 gallons	16 gallons	16 gallons
Coolant capacity	13.6 quarts (12.88 liters)/ Track Pack 15.2 quarts (14.4 liters)	9.5 quarts (8.96 liters)	13.6 quarts (12.88 liters)	13.6 quarts (12.88 liters)
Exhaust	5.20-inch single catalyst stainless with resonator and single mode dual rear mufflers, with dual polished stainless tips	5.20-inch single catalyst stainless with resonator and fully-active mode dual rear mufflers, with dual polished stainless tips	5.20-inch dual catalyst stainless with resonator and fully-active mode dual rear mufflers, with quad polished stainless tips	5.20-inch dual catalyst stainless with resonator and fully-active mode dual rear mufflers, with quad polished stainless tips with 4.5-inch exhaust
SAE horsepower	310* @ 5,500 rpm*	330* @ 6,000 rpm *	450 @ 7,000 rpm*	470 @ 7,250 rpm
SAE torque	350 ft.-lbs. @ 3,000 rpm	350 ft.-lbs. @ 3,000 rpm	410 ft.-lbs. @ 4,600 rpm	410 ft.-lbs. @ 4,800 rpm
Redline	6,800 rpm maximum intermittent, 6,500 rpm maximum continuous	6,800 rpm maximum intermittent, 6,500 rpm maximum continuous	7,500 rpm	7,500 rpm
Build location	Cleveland Engine Plant	Valencia Engine Plant	Windsor Essex Engine Plant	Windsor Essex Engine Plant

TRANSMISSION

Standard 6-speed manual	Getrag	Getrag	Getrag	Tremec TR-3160
Gear ratios:				
1st	3.237:1	3.237:1	3.237:1	3.25:1
2nd	2.104:1	2.104:1	2.104:1	2.23:1
3rd	1.422:1	1.422:1	1.422:1	1.61:1
4th	1.000:1	1.000:1	1.000:1	1.24:1
5th	0.814:1	0.814:1	0.814:1	1.00:1
6th	0.622:1	0.622:1	0.622:1	0.63:1
7th				
Optional 10-speed SelectShift automatic	N/A	N/A	Yes	Yes
1st	4.696:1	4.696:1	4.696:1	4.70:1
2nd	2.985:1	2.985:1	2.985:1	2.99:1
3rd	2.146:1	2.146:1	2.146:1	2.15:1
4th	1.769:1	1.769:1	1.769:1	1.77:1
5th	1.520:1	1.520:1	1.520:1	1.52:1
6th	1.275:1	1.275:1	1.275:1	1.28:1
7th	1.000:1	1.000:1	1.000:1	1.00:1
8th	0.854:1	0.854:1	0.854:1	0.85:1
9th	0.689:1	0.689:1	0.689:1	0.69:1
10th	0.636:1	0.636:1	0.636:1	0.64:1
Final drive	3.15:1, 3:31.1, 3.55:1 TORSEN (Performance Package)	3.55:1 TORSEN (Handling Package)	3.31:1, 3.55:1, 3.73:1 TORSEN (Performance Package with automatic), 3.73 TORSEN (Performance Package with manual)	3.55:1, 3.73:1 TORSEN (with manual)
Top speed (electronically limited)	121 mph (145 mph EcoBoost Performance Package)	155 mph	155 mph	166 mph with manual (168 mph Handling Package with manual)

*Horsepower and torque ratings based on premium fuel per SAE J1349 standard. Your results may vary.
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CHASSIS/SUSPENSION

	Mustang EcoBoost	2.3-Liter High Performance Package	Mustang GT	Mach 1
Fully unitized steel chassis, front-engine, rear-wheel-drive configuration with fully independent front/rear suspension and perimeter subframe. K-brace included on all convertible models, EcoBoost and GT Performance Packages and any model with 20-in. or larger wheels.				
Front configuration	Double-ball-joint independent MacPherson strut and tubular stabilizer bar (optional MagneRide™ damping system)	Double-ball-joint independent MacPherson strut and tubular stabilizer bar (optional MagneRide damping system)	Double-ball-joint independent MacPherson strut and tubular stabilizer bar (optional MagneRide damping system)	Double-ball-joint independent MacPherson strut and tubular stabilizer bar (optional MagneRide damping system)
Rear configuration	Integral-link independent with coil springs, solid stabilizer bar and mono-tube dampers, optional MagneRide damping system	Integral-link independent with coil springs, solid stabilizer bar and mono-tube dampers, optional MagneRide damping system	Integral-link independent with coil springs, solid stabilizer bar and mono-tube dampers, optional MagneRide damping system	Integral-link independent with coil springs, solid stabilizer bar and mono-tube dampers, optional MagneRide damping system

STABILIZER BAR DIAMETERS

Coupe	32 mm front x 21.7 mm rear	32 mm front x 21.7 mm rear	32 mm front x 21.7 mm rear	32 mm front x 21.7 mm rear
Convertible	32 mm front x 20 mm rear	32 mm front x 21 mm rear	32 mm front x 20 mm rear	—
EcoBoost Performance Package	32 mm front x 21.7 mm rear	33.3 mm front x 24 mm rear	—	—
GT Performance Package	—		32 mm front x 22.2 mm rear	—

STEERING

Type	Three-mode electric power-assisted rack-and-pinion steering with pull-drift compensation and active nibble control	Three-mode electric power-assisted rack-and-pinion steering with pull-drift compensation and active nibble control	Three-mode electric power-assisted rack-and-pinion steering with pull-drift compensation and active nibble control	Three-mode electric power-assisted rack-and-pinion steering with pull-drift compensation and active nibble control
Steering modes	Normal, comfort, sport	Normal, comfort, sport	Normal, comfort, sport	Normal, comfort, sport
Ratio	16:01	16:01	16:01	16:01
Turning circle, curb-to-curb	36.5 ft. (17-in. tires), 37.8 ft. (17-in., 18-in., 19-in. A/S tires); 40.0 ft. (20-in. tires)	37.8 ft. (19-in. all-season tires/ Handling Package)	37.8 ft. (18-in., 19-in. A/S tires); 40.0 ft. (20-in. A/S tires)	37.8 ft. (18-in., 19-in. A/S tires); 40.0 ft. (20-in. A/S tires)
Active features	Optional MagneRide damping system	Optional MagneRide damping system	Optional MagneRide damping system	Standard MagneRide damping system

BRAKES

Type	Four-wheel power disc brakes with four-sensor, four-channel antilock braking system and AdvanceTrac electronic stability control	Four-wheel power disc brakes with four-sensor, four-channel antilock braking system and AdvanceTrac electronic stability control	Four-wheel power disc brakes with four-sensor, four-channel antilock braking system and AdvanceTrac electronic stability control	Four-wheel power disc brakes with four-sensor, four-channel antilock braking system and AdvanceTrac electronic stability control
Front rotor configuration/diameter/thickness/material	320 mm x 30 mm vented discs, twin-piston 43 mm floating aluminum calipers	352 mm x 32 mm vented discs, four-piston 46 mm fixed aluminum calipers	352 mm x 32 mm vented discs, four-piston 46 mm fixed aluminum calipers; Performance Package: Brembo six-piston 36 mm fixed aluminum calipers, 380 mm x 34 mm vented discs	Performance Package: Brembo six-piston 36 mm fixed aluminum calipers, 380 mm x 34 mm vented discs
Front pad material	Non-asbestos organic (NAO)	NAO; EcoBoost Handling Package, low-metallic	NAO; Performance Package low-metallic (manual trans fastback only)	NAO; Performance Package low-metallic (manual trans fastback only)
Front swept area	467 sq. cm./plate	576 sq. cm./plate	576 sq. cm./plate (352 mm rotors); Performance Package, 669.39 sq. cm./plate (380 mm rotors)	576 sq. cm./plate (352 mm rotors); Performance Package, 669.39 sq. cm./plate (380 mm rotors)



	Mustang EcoBoost	2.3-Liter High Performance Package	Mustang GT	Mach 1
Rear type	Solid disc with floating iron calipers and integral parking brake	Vented disc with floating iron calipers and integral parking brake	Vented disc with floating iron calipers and integral parking brake	Vented disc with floating iron calipers and integral parking brake
Rear rotor configuration, diameter	320 mm x 30 mm solid disc, single-piston 45 mm floating aluminum calipers; integral parking brake	330 mm x 25 mm vented disc, single-piston 45 mm floating aluminum calipers	320 mm x 25 mm vented disc, single-piston 45 mm floating aluminum calipers	320 mm x 25 mm vented disc, single-piston 45 mm floating aluminum calipers
Rear pad material	Non-asbestos organic (NAO)	NAO	NAO (GT, GT Performance Package automatic/convertible); Performance Package, low-metallic (manual/fastback)	PFC 42
Rear swept area	365.38 sq. cm./plate	387.64 sq. cm./plate	387.64 sq. cm./plate	387.64 sq. cm./plate
Parking/emergency brake	Integral parking brake	Integral parking brake	Integral parking brake	Integral parking brake

SAFETY/CONTROL SYSTEMS

ABS/stability control	AdvanceTrac with ESC, EPAS (standard), unique EPAS, ABS and stability control tuning (optional)	AdvanceTrac with ESC, EPAS (standard), unique EPAS, ABS and stability control tuning (optional)	AdvanceTrac with ESC, EPAS (standard), unique EPAS, ABS and stability control tuning (optional)	AdvanceTrac with ESC, EPAS (standard), unique EPAS, ABS and stability control tuning (standard)
Airbags	Driver knee, driver/passenger side-impact, dual front, glove-box-door-integrated knee, side curtain (fastback only)	Driver knee, driver/passenger side-impact, dual front, glove-box-door-integrated knee, side curtain (fastback only)	Driver knee, driver/passenger side-impact, dual front, glove-box-door-integrated knee, side curtain (fastback only)	Driver knee, driver/passenger side-impact, dual front, glove-box-door-integrated knee, side curtain (fastback only)

WHEELS

<ul style="list-style-type: none">Standard wheelTire dimensions	<ul style="list-style-type: none">17 in. x 7.5 in. 23555RH A/S	<ul style="list-style-type: none">19 in. x 9 in. 25540R summer only tires	<ul style="list-style-type: none">18 in. x 8.0 in. 23550R W A/S	<ul style="list-style-type: none">19 in. x 9.5 in. (front) and 19 in. x 10 in. (rear)255/40R19 (front) and 275/40R19 (rear) summer-only tires
Optional	18 in. x 8.0 in. 235/50R W A/S; 19 in. x 8.5 in. 255/40R W A/S; 20 in. x 9.0 in. 265/35R W A/S; Performance Package: 19 in. x 9.0 in. 255/40R Y summer	19 in. x 9.5 in. 265/40R Pirelli Corsa4 summer-only tires (EcoBoost Handling Package) 19 in. x 9 in. luster nickel-painted forged aluminum wheels	19 in. x 8.5 in. 255/40R W A/S; 20 in. x 9.0 in. 265/35R W A/S; Performance Package (front) 19 in. x 9.0 in. 255/40R, (rear) 19 in. x 9.5 in. 275/40R Y summer	19 in. x 10.5 in. (front) and 19 in. x 11 in. (rear)/305/30R19 (front) and 315/30R19 (rear summer-only tires
Spare	Mini spare wheel and tire (optional)	Mini spare wheel and tire (optional)	Mini spare wheel and tire (optional)	Mini spare wheel and tire (optional); for North America, not available

HEADLIGHTS

HID	N/A	N/A	N/A	N/A
LED	Standard	Standard	Standard	Standard
Auto on/off	Standard	Standard	Standard	Standard
LED daytime running lamps	Standard	Standard	Standard	Standard
Auto high beam	Optional	Optional	Optional	Optional



EXTERIOR DIMENSIONS

(inches unless otherwise noted)	Mustang EcoBoost	2.3-Liter High Performance Package	Mustang GT	Mach 1
Wheelbase	107.1	107.1	107.1	107.1
Overall length	188.5	188.5	188.5	188.5
Overall width including mirrors	81.9	81.9	81.9	81.9
Overall width without mirrors	75.4	75.4	75.4	75.4
Overall height, fastback	54.3	54.3	54.3	54.3
Overall height, convertible	54.9	54.9	54.9	—
Track width, front	62.4	62.4	62.4	62.4
Track width, rear	65.1	65.1	65.1	65.1
Ground clearance	N/A	N/A	N/A	N/A
Curb weight, fastback manual	3,491 lbs.	3,730 lbs.	3,730 lbs.	3,868 lbs.
Curb weight, fastback automatic	3,511 lbs.	3,752 lbs.	3,752 lbs.	3,913 lbs.
Curb weight, convertible manual	3,636 lbs.	3,916 lbs.	3,916 lbs.	N/A
Curb weight, convertible automatic	3,656 lbs.	3,932 lbs.	3,932 lbs.	N/A
Curb weight, fastback DCT	N/A	N/A	N/A	N/A

INTERIOR DIMENSIONS

(inches unless otherwise noted)				
Passenger volume, fastback	82.8 cu. ft.	82.8 cu. ft.	82.8 cu. ft.	82.8 cu. ft.
Passenger volume, convertible	79.2 cu. ft.	79.2 cu. ft.	79.2 cu. ft.	—
Cargo volume, fastback	13.5 cu. ft.	13.5 cu. ft.	13.5 cu. ft.	13.5 cu. ft.
Cargo volume, convertible	11.4 cu. ft.	11.4 cu. ft.	11.4 cu. ft.	—
Seating capacity	Four	Four	Four	Four
Front headroom	37.6	37.6	37.6	37.6
Front headroom, convertible	37.6	37.6	37.6	—
Front legroom, SAE	45.1	45.1	45.1	45.1
Front shoulder room	56.3	56.3	56.3	56.3
Front hip room	54.9	54.9	54.9	54.9
Rear headroom, fastback	34.8	34.8	34.8	34.8
Rear headroom, convertible	35.7	35.7	35.7	—
Rear legroom, SAE fastback	29	29	29	29
Rear legroom, SAE convertible	29.2	29.2	29.2	—
Rear shoulder room, fastback	52.2	52.2	52.2	52.2
Rear shoulder room, convertible	44.7	44.7	44.7	—
Rear hip room, fastback	47.4	47.4	47.4	47.4
Rear hip room, convertible	43.7	43.7	43.7	—
Passenger volume, fastback	82.8 cu. ft.	82.8 cu. ft.	82.8 cu. ft.	82.8 cu. ft.
Passenger volume, convertible	79.2 cu. ft.	79.2 cu. ft.	79.2 cu. ft.	—
Trunk volume, fastback	13.5 cu. ft.	13.5 cu. ft.	13.5 cu. ft.	13.5 cu. ft.
Trunk volume, convertible	11.4 cu. ft.	11.4 cu. ft.	11.4 cu. ft.	—



TECHNOLOGY

	Mustang EcoBoost	2.3-Liter High Performance Package	Mustang GT	Mach 1
Available on-road (drive modes)	Five driver selectable drive modes: normal, sport, snow/wet, track, drag strip	Five driver selectable drive modes: normal, sport, snow/wet, track, drag strip	Five driver selectable drive modes: normal, sport, snow/wet, track, drag strip	Five driver selectable drive modes: normal, sport, snow/wet, track, drag strip
Available on-track (drag mode)	Track Apps: line lock, acceleration timer, brake performance, lap timer, launch control	Track Apps: line lock, acceleration timer, brake performance, lap timer, launch control	Track Apps: line lock, acceleration timer, brake performance, lap timer, launch control	Track Apps: line lock, acceleration timer, brake performance, lap timer, launch control
Available in-cabin (SYNC 3)	SYNC 3, B&O Sound System	SYNC 3, B&O Sound System	SYNC 3, B&O Sound System	SYNC 3, B&O Sound System
Standard	Ford Co-Pilot™ Technology includes Auto High Beams, BLIS® (Blind Spot Information System) with Cross-Traffic Alert, Lane-Keeping System (includes Lane-Keeping Assist, Lane-Keeping Alert and Driver Alert), Pre-Collision Assist with Automatic Emergency Braking (AEB) (Pedestrian Detection, Forward Collision Warning, Dynamic Brake Support), Rear View Camera, Headlamps with AutoLamp (Automatic On/Off) Rain-Sensing Wipers	Ford Co-Pilot™ Technology includes Auto High Beams, BLIS® (Blind Spot Information System) with Cross-Traffic Alert, Lane-Keeping System (includes Lane-Keeping Assist, Lane-Keeping Alert and Driver Alert), Pre-Collision Assist with Automatic Emergency Braking (AEB) (Pedestrian Detection, Forward Collision Warning, Dynamic Brake Support), Rear View Camera, Headlamps with AutoLamp (Automatic On/Off) Rain-Sensing Wipers	Ford Co-Pilot™ Technology includes Auto High Beams, BLIS® (Blind Spot Information System) with Cross-Traffic Alert, Lane-Keeping System (includes Lane-Keeping Assist, Lane-Keeping Alert and Driver Alert), Pre-Collision Assist with Automatic Emergency Braking (AEB) (Pedestrian Detection, Forward Collision Warning, Dynamic Brake Support), Rear View Camera, Headlamps with AutoLamp (Automatic On/Off) Rain-Sensing Wipers	Ford Co-Pilot™ Technology includes Auto High Beams, BLIS® (Blind Spot Information System) with Cross-Traffic Alert, Lane-Keeping System (includes Lane-Keeping Assist, Lane-Keeping Alert and Driver Alert), Pre-Collision Assist with Automatic Emergency Braking (AEB) (Pedestrian Detection, Forward Collision Warning, Dynamic Brake Support), Rear View Camera, Headlamps with AutoLamp (Automatic On/Off) Rain-Sensing Wipers
Available general	Available Ford Safe & Smart Package includes Adaptive Cruise Control, Voice-Activated Touchscreen Navigation System with Pinch-to-Zoom Capability, SiriusXM Traffic and Travel Link®	Available Ford Safe & Smart Package includes Adaptive Cruise Control, Voice-Activated Touchscreen Navigation System with Pinch-to-Zoom Capability, SiriusXM Traffic and Travel Link®	Available Ford Safe & Smart Package includes Adaptive Cruise Control, Voice-Activated Touchscreen Navigation System with Pinch-to-Zoom Capability, SiriusXM Traffic and Travel Link®	Available Ford Safe & Smart Package includes Adaptive Cruise Control, Voice-Activated Touchscreen Navigation System with Pinch-to-Zoom Capability, SiriusXM Traffic and Travel Link®

WARRANTY

Bumper-to-bumper	3 years/36,000 miles	3 years/36,000 miles	3 years/36,000 miles	3 years/36,000 miles
Powertrain	5 years/60,000 miles	5 years/60,000 miles	5 years/60,000 miles	5 years/60,000 miles
Corrosion	5 years/unlimited miles	5 years/unlimited miles	5 years/unlimited miles	5 years/unlimited miles
Safety restraint system	5 years/60,000 miles	5 years/60,000 miles	5 years/60,000 miles	5 years/60,000 miles
Roadside assistance	24-hour/day	24-hour/day	24-hour/day	24-hour/day

