

# TRX420FA

**2009** Press Information



## Introduction

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Meet the all-new 2009 Rancher AT. With a powerful liquid-cooled, fuel-injected 420cc longitudinally mounted engine, automatic/ESP five-speed transmission, independent rear suspension—plus Honda's selectable 4WD/2WD TraxLok and rugged torque-sensitive front differential—there's no better choice for reliable and rewarding ATV recreation.

## Colours

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- To be confirmed



## Features and Benefits

### Unique Features

- New Honda automatic five-speed transmission provides five-speed auto-shifting or push-button manual shifting with Honda's Electric Shift Program (ESP).
- Rugged OHV liquid-cooled, fuel-injected 420cc longitudinally mounted engine allows direct driveshaft alignment to both front and rear wheels for maximum drivetrain efficiency.
- Independent double-wishbone rear suspension (IRS) contributes to increased ground clearance and responsive, class-leading handling.
- Front and rear disc brakes for phenomenal braking performance.

### Engine/Drivetrain

- Powerful 420cc longitudinally mounted engine eliminates 90° power transfers and boasts exceptional horsepower and torque.
- Overhead-valve design provides compact engine dimensions for excellent ground clearance.
- Cylinder head redesigned with higher compression, revised camshaft profile and larger intake valves (38 vs. 35mm) and exhaust valves (33 vs. 30mm) to ensure strong mid-range and top-end power.
- Programmed Fuel-Injection (PGM-FI) features a 34mm throttle body, 12-hole Denso injector, and Idle Air Control Valve (IACV) for crisp performance, excellent economy and trouble-free operation in cold conditions and varying altitudes.
- Large 7.2-litre airbox with washable, reusable foam air filter provides more air to the engine for increased performance.
- New high-capacity oil system features a high-flow filter and a two-rotor pump to provide oil for the engine and the pressurized transmission clutches.
- Rubber-cushion engine mounting and gear-driven counter balancer reduce vibration.

- Large radiator with cooling fan ensures optimal engine cooling under difficult operating conditions.
- Stainless-steel exhaust header and muffler for superior corrosion resistance.
- Three-chamber muffler baffling uses no packing material that can blow out, providing long-lasting performance.
- New lightweight, automatic transmission offers 5-speed auto-shifting or push-button manual shifting with Honda's Electric Shift Program (ESP). After the heavy duty centrifugal clutch engages, two Electronic Control Module ECM-controlled clutches mounted in the gearbox upshift/downshift to provide smooth, lurch-free shifts. When descending hills in automatic mode, the transmission downshifts, providing excellent engine braking. If rider forgets to downshift when stopping in ESP mode, the transmission downshifts to third gear to prevent engine lugging.
- Excellent fuel economy results from the transmission's high efficiency.
- TraxLok 4WD/2WD selector lever allows 4WD or 2WD operation.

### Chassis/Suspension

- Rugged frame and suspension provide an exceptional 23.1cm of ground clearance.
- Independent double-wishbone front suspension uses premium shock absorbers to provide 16cm of wheel travel for a plush, comfortable ride.
- Honda's double wishbone, Independent Rear Suspension (IRS) provides 16cm of wheel travel and minimizes geometry variations as the suspension travels through its stroke, maintaining rear wheel alignment, contributing to responsive overall handling, and reducing tire wear and maintenance intervals.
- Dual hydraulic front and single rear disc brakes provide exceptional stopping power and feature brake pads that minimize wear from dust and sand.



- Rear center disc brake and self-adjusting mechanical rear parking brake are mounted on the rear driveshaft, contributing to the AT's considerable ground clearance.
- Tough, large-diameter 24x8-12 front, and wide 24x10-11 rear tires provide excellent ground clearance while maintaining precise handling.

### Additional Features

- Convenient electric starting, with optional recoil starter and an automatic internal-decompression system.
- Large, lightweight plastic fuel tank with 13.6-litre capacity.
- Multifunction LCD digital instrumentation is compact, tough and waterproof, featuring large readouts for gear position, speedometer, odometer, resettable tripmeter and hour meter. Instrument housing includes indicator lights for Reverse, Neutral, water-temperature, PGM-FI, and 4WD.
- Thickly padded seat provides all-day comfort.
- Large cargo racks front and rear carry payloads of 29.9kg and 60.3kg, respectively.
- Heavy-duty trailer hitch with 385.6kg towing capacity.
- Snorkel-type air-intake system is specially designed to resist water.
- Closed crankcase vent system safeguards against engine oil contamination.
- Spark arrester/muffler designed for quiet operation without wool packing for long-lasting performance.
- Powerful 371W AC generator.
- Tough 12-amp-hour maintenance-free battery.
- Twin-headlight system with 30W bulbs features multireflector lenses for optimal light distribution.
- Combination LED stoplight and taillight.
- Durable, comfortable, easy-to-use controls.

- Keyed ignition switch for added security.
- Large fenders give excellent mud protection.
- Specially designed floorboards allow the rider's feet to grip the footrests while helping to keep mud and debris away.
- Full-length synthetic lower skid plate with integrated front brush guard.
- Constant-velocity-joint boot guards help prevent damage to boot covers.
- Handlebar switches, controls and warning labels use easy-to-understand graphic labels.
- Standard equipment includes a tire-pressure gauge.

### Available accessories

- Flag Kit.
- Recoil Starter.
- 12V Accessory Socket.



# Specifications

General		
Model		TRX420FA
Mold Type		A-type
Engine		
Type		420cc liquid-cooled OHV semi-dry-sump longitudinally mounted single-cylinder four-stroke
Bore x Stroke		86.5 x 71.5mm
Fuel System		
Carburation		Programmed Fuel Injection (PGM-FI)
Throttle Bore		34mm
Fuel Tank Capacity		13.6 litres (including 3.8-litre reserve)
Electrical System		
Ignition System		Full-transistorized type with electronic advance
Starter		Electric with auxiliary recoil
Drivetrain		
Transmission		ESP 5-speed with reverse
Final Drive		Direct front and rear driveshafts
Chassis		
Dimensions	(LxWxH)	2,055 x 1,171 x 1,146mm
Wheelbase		1,255mm
Turning Radius		3.2m
Seat Height		823mm
Ground Clearance		231mm
Kerb Weight		282.6kg
Suspension		
Type	Front	Independent double-wishbone; 16cm travel
	Rear	Independent double-wishbone; 16cm travel
Wheels		
Tyre Size	Front	24 x 8-12 ( )
	Rear	24 x 10-11 ( )
Brakes		
Type	Front	Dual hydraulic disc
	Rear	Single hydraulic disc