

# 2014 Brute Force 650 4x4i



## Nothing beats brute force.

The Brute Force 650 4x4i combines the 650cc engine from the legendary Brute Force 650 4x4 with the fully-independent suspension chassis of the Brute Force 750 4x4i to provide customers the comfort of independent rear suspension in a more economical package.

Tuned to mimic the 750's power characteristics, the Brute Force 650 4x4i delivers powerful performance throughout the rpm range. While overall styling is in line with the Brute Force 750 4x4i, the 650 takes on its own character with a unique front guard design.

### Engine

Type	4-Stroke, V-Twin, Liquid-Cooled, SOHC, 4-Valve
Displacement	633 cm <sup>3</sup>
Bore and Stroke	80 x 63 mm
Compression ratio	9.9:1
Valve system	SOHC, 4 valves per cylinder
Fuel system	Carburettor: Keihin CVKR-D32 x 2
Ignition	Digital DC-CDI
Starting	Electric
Lubrication	Forced lubrication, wet sump

### Drivetrain

Transmission	Continuously variable belt-drive transmission with high and low range, plus reverse, and Kawasaki Engine Brake Control	
Final drive	Selectable four-wheel drive with variable front differential control, shaft	
Primary reduction ratio	3.122 ~ 0.635 (belt converter)	
Gear ratios:		
	Forward (High)	3.098 (30/26 x 29/18 x 20/12)
	Forward (Low)	4.833 (36/20 x 29/18 x 20/12)
	Reverse	4.028 (16/12 X 18/16 X 29/18 X 20/12)
Final reduction ratio	4.375 (35/8)	

### Frame

Type	Double cradle, high-tensile tubular steel	
Wheel travel	front	171 mm
	rear	200 mm
Tyres:	front	AT 25 x 8-12 Tubeless
	rear	AT 25 x 10-12 Tubeless
	Caster (rake)	2°

### Suspension

Front: Type	Dual A-Arms, Two Shocks with 5-Way Preload Adjustment
Rear: Type	Dual A-Arms, Two Shocks with 5-Way Preload Adjustment

### Brakes

Front brakes	Dual 200 mm discs with 2-piston callipers
Rear brake	Enclosed wet multi-plate
Parking brake	Enclosed wet multi-plate

### Dimensions

Overall length	2,194 mm
Overall width	1,165 mm
Overall height	1,234 mm
Wheelbase	1,285 mm
Ground clearance:	243 mm

Seat height	904 mm
Curb mass	297 kg (includes full tank of fuel and all fluids at correct levels)
Fuel capacity	20.5 litres

### Performance

Maximum torque	51.4 N·m {5.2 kg·m} / 5,500 rpm
Minimum turning radius	3.2 m
Load capacity (front/rear)	40 kg / 80 kg
Towing capacity	5,560N (567 kg)
Colours	Super Black

The specifications mentioned here apply to and have been achieved by production models under standard operating conditions. We intend only to give a fair description of the vehicle and its performance capabilities but these specifications may not apply to every machine supplied for sale. Kawasaki Heavy Industries, Ltd. reserves the right to alter specifications without prior notice. Equipment illustrated and specifications may vary to meet individual markets.



## Rugged Bodywork

The 2014 Brute Force 650 4x4i's thermoplastic olefin bodywork has a high gloss finish for great looks and is more scratch resistant than polyethylene plastic so it stays looking good longer.

Dual compartments on the front fenders provide convenient storage. Optional storage cylinder at the rear matches the muffler shape for a sporty, balanced appearance.

## Variable Torque Front Differential

Operating as a standard limited-slip differential in 4WD mode, a handlebar mounted lever enables manual slippage control to distribute torque evenly to the left and right front wheels for maximum traction in sticky situations.

## Dual Front Disc Brakes

Dual 200mm discs with twin piston calipers provide solid stopping power. The discs are recessed within the wheels to help protect them from debris. Calipers are mounted rigidly for better brake feel and control.



## Big-Bore V-Twin Grunt

The Brute Force 650 4x4i's proven liquid-cooled, 633 cc SOHC, 4-valve V-twin engine churns out a massive 30.9 kW {42PS} @ 6,500 rpm. The oversquare bore and stroke dimensions contribute to a high torque output and a smooth, user-friendly power curve.

## Electrically Selectable 2WD/4WD

Handlebar mounted controls allow you to effortlessly change between 2WD and 4WD with the flick of a switch to instantly adjust to changing terrain and conditions.

## Automatic Transmission

The easy-to-operate, smooth-shifting, CVT (Continuous Variable Transmission) transmission features the Kawasaki Automatic Power-Drive System (KAPS) belt-type torque converter to make shifting between high, low and reverse gears a breeze.



## Independent Front and Rear Suspension

The Brute Force 650 4x4i uses double wishbone and coil-over-shock absorbers with adjustable preload provide a comfortable ride.

A rear torsion bar helps control body roll.

## Sealed Rear Brake System

The Brute Force 650 4x4i multi-disc rear brake system is totally enclosed within the frame-mounted rear gear case.

The system operates in a sealed oil bath so that the brake is unaffected by water, mud, dust and debris. The compact design provides more ground clearance at the rear end.

## Digital Meter Unit

Digital speedometer, odometer, twin trip meters, clock, hour meter, fuel gauge is mounted at a steep angle and has a visor to make the meter more visible from the upright seating position.

## Snorkel Air Intake

The airbox design provides easy access to simplify maintenance. An oval-type air filter provides large intake area and reduces dust build-up on the filter.

## Kawasaki Engine Brake Control

The 2014 Brute Force 650 4x4i employs an advanced, self-adjusting, self-diagnostic system that detects the ATV's speed and rate of deceleration before gradually engaging the CVT drive pulley to ensure smooth, controlled engine braking.

## Heavy Duty Towing and Carrying Capacity

The Brute Force 650 4x4i matches its larger 750cc brother with a massive 120kg combined carrying capacity and, thanks to its sturdy chassis and high-torque

engine, boasts an equally impressive 567kg towing capacity.



## 5-Star ATV Safety

Take the online 5 Star Tutorial at <https://www.atvsafety.snaplearn.com.au>

Remember to always follow these 5 Star ATV Safety tips:

1. Choose a vehicle which is fit for purpose ? for the task and the rider.
2. Wear a helmet ? the most effective safety device.
3. Rider training ? will allow you to fully understand both the ATV?s features and its limitations.
4. Don?t allow passengers on single seat ATVs, and no kids under 16 on adult size ATVs.
5. Follow the manufacturer?s guidance and warnings.

Also see [www.atvsafety.com.au](http://www.atvsafety.com.au) web site for the 5 Star ATV Safety Riding Videos.

**Accessories for KVF650FEF 2014 KVF650 4X4 (2567)**



**CASE STORAGE FRONT RACK**

\* High strength Polyethylene material with UV stabilizers to fight against fading  
 \* Rubber sealed lid to keep out dust and water  
 \* Two lockable latches \* Bolts solidly in place \* 34"L x 18"W x 7"H



**CASE STORAGE REAR RACK CV FRONT JOINT GUARDS**

\* High strength Polyethylene material with UV stabilizers to fight against fading  
 \* Rubber sealed lid to keep out dust and water \* Two lockable latches \* Bolts solidly in place \* 40"L x 19"W x 12"H



Give your ATV additional underbody protection with these durable brushed aluminum CV front joint guards. These easy to install skid plates utilize stock mount points and come with all necessary mounting hardware. They will provide additional protection in rough terrain.



**GUN BOOT IV**

\* Rugged polyethylene shell with plush pile lining will keep your gun protected and secure \* Accommodates left & right hand bolts \* Accepts 50mm scopes \* Use with the Gun Boot IV mounts only

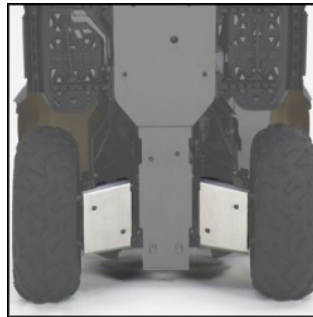


**MOTO MINDER HOUR METER ROLLER FAIR LEAD**

\* MM is an engine hour meter specifically designed for use in the harsh environment of motocross racing. As such, it will operate reliably in a number of other applications \* - Motorcycles - MM has been specifically designed for motocross racing \* It is also useful for tarmac race bikes, ATVs, enduro bikes, karts etc \* Note: MM will operate on the new generation "pencil coil" ignitions \* - Marine - MM is fully spec'd for saltwater marine use \* Applications include outboard motors, jet skis and other recreational and race craft \* MM has a dual purpose input circuit \* This means that the red sense wire can be cable tied along a sparkplug HT lead (Inductive Connection) OR it can be connected directly into a voltage supply (Direct Connection)

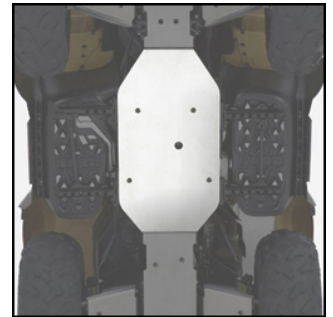


\* A must have for your winch, this roller fairlead reduces wear and prolongs cable life by minimizing cable angles \* Standard bolt pattern size



**SKID PLATE CV JOINT REAR**

\* Give your ATV additional under body protection with these durable brushed aluminium C/V Joint guards. These easy to install skid plates utilize stock mount points and come with all necessary mounting hardware \* They will provide additional protection in rough terrain.



**SKID PLATE MID**

\* Give your ATV additional underbody protection with this durable brushed aluminium skid plate \* This easy to install skid plate utilizes stock mount points and comes with all necessary mounting hardware \* This plate helps protect your ATV's frame in rough terrain



**SKID PLATE REAR**

\* Protect your ATV's rear differential and brake with this durable brushed



**STORAGE CANISTER**

\* Storage canister with screw on lid \* Attaches to right rear of ATV \* All parts



**TRAILER HITCH BALL**

2" Chrome plated trailer hitch ball . Includes nut and lock washer.



**WARN PRO VANTAGE 2500 WINCH**

A workhorse powersports winch built with

aluminum skid plate \* Designed to take the abuse of rough terrain \* This heavy-duty skid plate utilizes stock mounting points for easy installation

and hardware included

3/4" diameter shank. 1&1/2" shank length. When used with Hitch Ball Mount KAF138 (for Mule) or TX750-015 (for Terxy), a reducer Bushing is required. Kawasaki Genuine Accessories part number TLR36A.

premium components. Featuring 1100kg (2,500 lbs) of pulling capacity, the Pro Vntage 2500 is ideal for recovering stuck vehicles on the trail or pulling heavy loads on the work site. With an easy-to-use clutch dial, powerful permanent magnet motor, and all-metal gear housing, this winch is a market leader. 15m (50') of 4.7mm (3/16") wire rope and plow roller fairlead, hook, tie rods, and body feature attractive, durable corrosion-resistant black finish. Three-stage planetary gear train for smooth, efficient operation. Ergonomic clutch handle. Patented roller disc brake for outstanding control while winching. Fully sealed to keep the elements out.



### WINCH REMOTE WIRELESS

- \* Operates your winch from anywhere from within a 50' radius
- \* Wiring harness with built-in antenna and all hardware
- \* Works with any warn powersports winch with a contactor and mini-rocker control switch
- \* Activation process and recessed buttons prevent accidental winch activation
- \* Two color LED indicates when the system has powered on (Green) and when the system has begun winching (Red)
- \* System automatically powers off to conserve battery life
- \* Large buttons for easy use and when wearing gloves
- \* Works at all vehicle voltage levels that allow winch operation
- \* All components are weatherproof
- \* Handlebar-mounted holster keeps the handheld remote at the ready

### WINCH WARN RT25

- \* New ergonomic freewheel clutch handle
- \* Fits existing mounts and spaces
- \* Mini-rocker switch
- \* Includes roller fairlead
- \* Sealed all metal drive train and housing
- \* Color-coded wiring for easy installation