



**SINNIS**  
**TERRAIN**  
125  
**OWNER'S MANUAL**

<https://www.motomanuals.net/>



*The Motorcycle pictured in this owner's manual may not fully match your actual SINNIS motorcycle.*

## WELCOME

Congratulations on becoming the proud owner of a new SINNIS motorcycle.

At SINNIS we are committed to giving you the best possible experience throughout and having made your purchase, we are here to support you throughout your journey with us, providing you with dedicated aftersales care and advice on your new bike. Sinnis has your transport requirements at its heart.

Your motorcycle is designed for road use only, in line with our UK transport laws and for operation as recommended by the manufacturer (stated within this User Manual). Please ensure you read this User Manual prior to operation and seek advice from your SINNIS Dealer Representative if you are unsure on any points relating to your motorcycle or its operation. The data, instructions and specifications in this User Manual are based upon the latest design features. SINNIS and the manufacturer reserve the rights to make changes to the specifications of our vehicles without warning, as we are devoted to making continuous improvements to our products and services. We always therefore welcome suggestions and feedback from our customers, with a view to making such improvements. This User Manual is solely for your reference as our customer and hence any reproduction of this User Manual (by company or individual) is not permitted. All information contained in this manual is correct at the time of print and SINNIS Motorcycles accept no liability for out-of-date information.

For parts not listed herein, please contact your SINNIS Dealer Representative, or our Online Official Parts Catalogue, details on our website: [www.sinnismotorcycles.com](http://www.sinnismotorcycles.com)



Join our EXCLUSIVE Sinnis Owners Club Facebook Page, where YOU as a Sinnis owner can share your riding stories, queries and photos.



Check out our @sinnis\_motorcycles Instagram page for the latest pictures of show events, lifestyle and new models.



Watch our Team's video diaries, reviews and maintenance tips on our Sinnis Motorcycles YouTube Channel.

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## MOTORCYCLE SAFETY

This section contains important information for safe riding of your SINNIS motorcycle. Please read this section carefully.

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## Safety Guidelines

Follow these guidelines to enhance your safety when riding your SINNIS motorcycle:

- Perform all routine and regular inspections specified in this manual.
- Stop the engine and keep any sources of ignition away when filling the fuel tank.
- Do not run the engine in an enclosed or partly enclosed areas. Carbon monoxide in exhaust gases is toxic and can kill you.

### ***Always wear a Helmet***

It is a proven fact that helmets and protective apparel significantly reduce the number and severity of head and other injuries. So always wear an approved motorcycle helmet and protective apparel.

### ***Before Riding***

Make sure that you are physically fit, mentally focused and free of alcohol and drugs. Check that you and your passenger are both wearing an approved motorcycle helmet and protective apparel. Instruct your passenger on holding onto the grab rail or your waist, leaning with you into turns and keeping their feet on the foot-pegs even when the motorcycle is stopped.

### ***Take Time to Learn & Practise***

Even if you have ridden other motorcycles, practise riding in a safe area to become familiar with how your SINNIS motorcycle works, handles and to become accustomed to the size and weight.

***Ride Defensively***

Always pay attention to other vehicles around you and do not assume that other drivers see you. Be prepared to stop quickly or perform an evasive manoeuvre.

***Make Yourself Easy to See***

Make yourself more visible, especially at night, by wearing bright reflective clothing, positioning yourself so other road users can see you, signalling before turning or changing lanes and using your horn to alert other road users when necessary.

***Ride within Your Limits***

Never ride beyond your personal abilities or faster than conditions warrant. Fatigue and inattention can impair your ability to use good judgement and ride safely.

***Don't Drink and Ride***

Alcohol and riding do not mix. Even one alcoholic drink can reduce your ability to respond to changing conditions and your reaction time gets worse with every additional drink. Do not drink and ride, don't let your friends drink and ride either.

***Keep Your SINNIS in Safe Condition***

It's important to keep your motorcycle properly maintained and in safe riding condition. Inspect your motorcycle before every ride and perform all recommended maintenance, never exceed load limits and do not modify your motorcycle or install accessories that would make your motorcycle unsafe.

***If you are Involved in a Crash***

Personal safety is your first priority. If you or anyone else has been injured, take time to assess the severity of the injuries and whether it is safe to continue riding. Call or emergency assistance if needed. Also follow applicable laws and regulation if another person or vehicle is involved in the crash.

If you decide to continue riding, first turn off the ignition lock and evaluate the condition of your SINNIS motorcycle. Inspect for fluid leaks, check the tightness of critical component fastenings, check the handlebar and foot controls, and check the brakes and wheels. Ride slowly and cautiously. Your motorcycle may have suffered damage that is not immediately apparent. Have your SINNIS motorcycle thoroughly check at a qualified service facility as soon as possible.

***Carbon Monoxide***

If you run the engine in confined or even partly enclosed areas, the air you breathe could contain a dangerous amount of carbon monoxide which can cause loss of consciousness.



### ***Accessories and Loading***

The stability and handling of your SINNIS motorcycle may be affected by the addition of accessories and luggage.

Read carefully the instructions contained in the user's manual and installation guide before installing any accessories.

The total weight of accessories and luggage combined to the rider and passenger's weight should not exceed **150kg**, which is the maximum weight capacity.

The luggage weight must not exceed **5kg** per individual luggage box under any circumstances.

## Tyres and Drive Chain

Cold Tyre Pressure: **250 kPa / 36 PSI / 2.5 Bar**

Tyre Size:

Front: **100/80 – 17 (52S)**

Rear: **120/80 – 17 (61S)**

Chain Adjustment: Free Play **15 - 25mm** (Keep chain lubricated)

## Riding Precautions

### ***Protective Apparel***

Make sure that you and any passenger are wearing an approved motorcycle helmet, eye protection and high-visibility protective clothing. Ride defensively in response to weather and road conditions.

*Helmet*; Safety-standard certified, high-visibility and appropriate size for your head. Should fit comfortably but securely, with the chin strap fastened. Should incorporate some form of eye protection with unobstructed field of vision.

*Gloves*; Full-finger constructed from highly abrasion resistant material.

*Boots or Riding Shoes*; Sturdy boots with non-slip soles and ankle protection.

*Jacket and Trousers*; Protective, highly visible, long sleeved jacket and durable trousers for riding (or protective suit) which incorporate impact resistant armour and highly abrasion resistant materials.

### ***Running in Your New SINNIS Motorcycle***

After purchasing a new motorcycle there is a 'running in' period for the engine. It is vitally important that the motorcycle is successfully managed through this running in period as it will have a direct impact on the service life motorcycle.

It is recommended that for the first 1000km/600miles the engine RPM should not exceed 6500RPM in all gears. Care should also be taken to:

1. Avoid aggressive throttle usage, both in starting and riding conditions.
2. Avoid hard braking and rapid down-shifting of the gears.
3. Ride conservatively.

Upon completion of the motorcycles first 1000km/600miles it should be taken to your nearest SINNIS dealer for servicing as per the Maintenance and Service schedule.

## **Brakes**

Observe the following guidelines:

- Avoid excessively hard braking and downshifting.
  - Sudden braking can reduce the motorcycle's stability.
  - Where possible, reduce speed before turning; otherwise, you risk sliding out.
- Exercise caution on low traction surfaces.
  - Tyres can slip more easily, and braking distances are greatly increased.
- Avoid continuous braking.
  - Repeated braking, such as when descending long, steep slopes can seriously overheat the brakes, reducing their effectiveness. Use engine braking with intermittent use of the brakes to reduce speed.
  -
- For full braking effectiveness, operate both the front and rear brakes together.

## **Combi Brake**

Your SINNIS motorcycle is equipped with a braking system that distributes the braking force between the front and rear brakes. The distribution of the braking force applied to the front and rear brakes when operating the lever only and the pedal only is different.

### ***Engine Braking***

Engine braking helps slow your motorcycle down when you release the throttle. For further slowing action, downshift to a lower gear. Use engine braking with intermittent use of the brakes to reduce speed when descending long steep slopes.

### ***Guide for Safe Riding***

#### *Ascending and Descending Slopes*

When riding up and down steep slopes, select the appropriate gear:

- For riding up steep slopes, use lower gears to make best use of the engine torque and avoid stalling the engine.
- For riding down steep slopes, use higher gears to avoid excessive engine RPM in the lower gears and maintain control over your descent.

### *Riding in Wet Weather Conditions*

In wet or foggy weather, there will be low visibility and poor adhesion between the tyres and the road. Check tires for wear and check there is sufficient tread for optimum grip. When riding into low visibility or on slippery roads, keep to a safe speed and do not accelerate, brake or turn suddenly.

### *Riding in Snow/Icy Conditions*

It is generally not recommended to ride in icy or snowy weather conditions. Should you be in a position where it is necessary to ride in such conditions, do not accelerate, brake or turn suddenly. Try to use the available gears to slow down (often referred to as 'engine braking') where possible, with no sudden braking. Steer slowly and plan-ahead by slowing down in advance of approaching bends, junctions or hazards.

### *Braking Distances*

The faster the speed of travel, the longer the braking distance required to stop the motorcycle.

This is doubled on wet roads. It is advisable to reduce your speed on wet roads or in poor visibility because of this. When braking, use the rear brake followed by the front brake to control your speed.

### ***Parking***

- Try to park on a firm level surface.
- If you must park on a slight incline or loose surface, park so that your SINNIS motorcycle cannot move or fall over.
- Make sure that high-temperature part cannot come into contact with flammable materials.
- Do not touch the engine, exhaust, brakes and other high-temperature parts until they cool down.
- To reduce the likelihood of theft, always lock the handlebar and remove the key when leaving the motorcycle unattended. Use of anti-theft security devices is high recommended.

### ***Parking on the Side Stand***

1. Stop the Engine
2. Push the side stand down into its final stop position.
3. Slowly lean the motorcycle onto the side stand until the weight of the motorcycle rests on the side stand.
4. Ensure the side stand is on a firm surface and does not begin to sink when the motorcycle weight is applied.
5. Turn the handlebar full to the left.
  - Turning the handlebar to the right reduces stability and may cause the motorcycle to fall.
6. Turn the ignition switch to the lock position and remove the key.

### ***Parking on the Centre Stand***

To lower the centre stand, stand on the left side of your SINNIS motorcycle. Hold the left handlebar grip and the grab rail. Press down on the top of the centre stand with your right foot and simultaneously pull back and up.



## Refuelling & Fuel Guidelines

When refuelling your SINNIS motorcycle, use Unleaded fuel with a **minimum octane rating of 92**.

Fuel Tank Maximum Capacity: **14 Litres / 3.07 Imperial Gallons**

### *Refuelling*

1. Turn off the engine when refuelling, then turn the ignition switch to the OFF position.
2. Open the fuel cap lock cover and insert the ignition key. Turn clockwise to unlock.
3. Refuel only until the fuel level reaches the bottom of the filler opening. Overfilling will cause fuel to leak from the cap.
4. After refuelling, push the cap into the filler neck until it snaps closed and locks.
5. Remove the ignition key and close the lock cover.
  - The ignition key cannot be removed if the cap is not locked.

### *CAUTION*

Do not wash filler cap area with high pressure water, as water can potentially enter the tank.



## Accessories & Modifications

We strongly advise that you do not add any accessories that were not specifically designed or approved for your motorcycle by SINNIS or make modifications to your motorcycle from its original design. Doing so can make it unsafe. Modifying your SINNIS motorcycle may also void your warranty and make your motorcycle illegal to operate on public roads and highways. Before deciding to install accessories on your SINNIS motorcycle be certain the modification is safe and legal.

## Loading

Carrying extra weight affects your SINNIS motorcycle's handling, braking and stability. Always ride at a safe speed for the load you are carrying.

Avoid carrying an excessive load and keep within specified load limits.












Tie down all luggage securely, evenly balanced, and close to the centre of the motorcycle.

Do not place objects near the lights or the exhaust.

## OPERATION GUIDE

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## Lock & Instrument Display









NAME		SPECIFICATION
Ignition on		Turn the ignition key clockwise to provide power to the ignition.
Ignition off		Turn the ignition key anti-clockwise to turn the power off.
Steering lock		With the handlebars at full lock to the left, turn the key anti-clockwise to engage the steering lock.
Gear indicator		Indicates the current gear selected. N or 0 means neutral.
Speedometer		Indicates the running speed of your motorcycle.
Fuel guage		Indicates how much fuel is in the tank.
Rev counter		Indicates the RPM (Revolutions Per Minute) of the engine.
Left turn indicator		Shows the rider that the left-hand indicator is switched on.
High beam		Shows the rider the Headlight High-beam function is active.
Right turn indicator		Shows the rider that the right-hand indicator is switched on.
Engine warning light		Illuminated at ignition-on. If constant, indicates an engine system fault.
Engine temperature		Illuminates when engine temperature is exceeded

## USB Port

To the right of the Dashboard is a USB port which can be used for the charging or powering of common electrical accessories.



## Left & Right Handlebar Controls

NAME		SPECIFICATION
Passing Light Button		When signalling to other road-users, press button to flash the Headlight High-Beam.
Hi-Beam Switch		Move switch to this position to use the Headlight High-Beam function.
Low-Beam Switch		Move switch to this position to return the Headlight to the Low-Beam function.
Direction Indicator Switch		Move switch to either the left or right to engage the respective indicator light. Push the switch to cancel.
Horn Button		Press button to engage the horn.
Engine Cut-Off Switch		Move switch to this position to shut off the engine.
Illumination Button		Press button to change the colour of the display illumination.
Electric Start Button		Press button to engage the electric start system. <b>CAUTION:</b> The rider should ensure that the motorcycle is either in the Neutral gear or is holding the clutch lever in when attempting to start the motorcycle.

### CAUTION

When starting the motorcycle using the electric starter system, it should take no longer than approximately 5 seconds for the motorcycle to start. If the motorcycle is unable to start after 5 seconds, allow at least 10 seconds before the next attempt to start the motorcycle.

## Operation Controls

NAME	#	SPECIFICATION
Throttle	1	Controls the Air/Fuel intake of the engine. (Causing RPM to increase or decrease)
Gear Selector	2	This motorcycle has 5 independent gears (1 Down, 4 Up). Reduce throttle input when changing gears.
Clutch Lever	3	Disengages the engine from the transmission when changing gears.
Front Brake Lever	4	Controls the front brake system when squeezed. The rear brake light also illuminates.
Rear Brake Lever	5	Controls the rear brake system when pushed down. The rear brake light also illuminates.



**CAUTION**

This motorcycle has a manual clutch system. When starting the motorcycle, ensure the motorcycle is in Neutral or hold the clutch lever in until ready to move.

If the clutch system cannot fully engage or disengage (often referred to as 'clutch slip') then it is advised that you take the motorcycle to your nearest dealer for professional adjustment.

It is essential to have the braking systems on the motorcycle checked at regular intervals. We advise that all maintenance and servicing is carried out by your nearest trusted Sinnis dealer, for both rider safety and for the longevity of your motorcycle.

**WARNING**

If in the event the front and rear braking systems cannot operate simultaneously, ensure the motorcycle is checked by your nearest dealer to prevent inconsistent or unintended braking performance.



## Starting & Warm Up

When starting the motorcycle using the electric starter system, it should take no longer than approximately 5 seconds for the motorcycle to start. If the motorcycle is unable to start after 5 seconds, allow at least 10 seconds before the next attempt to start the motorcycle. After three attempts, visually inspect motorcycle.

Once started, always allow the motorcycle to warm up for a few minutes before setting off.

Carry out the starting and warmup protocol as follows:

1. Turn the ignition key to the 'on' position.
2. Either select 'N' for neutral on the gear selection or hold the clutch lever in until ready to set off.
3. Press and hold the engine start button for up to 5 seconds.
4. If starting the motorcycle in cold condition or after a long period without use, it may be necessary to rotate the throttle by a small degree to aid the starting process.
5. Once the engine has successfully started, allow the engine to idle for up to 5 minutes to properly warm. The engine idle RPM should be approximately 1500rpm +/- 100.

**CAUTION**

This motorcycle has a manual clutch system. When starting the motorcycle, ensure the motorcycle is in Neutral or hold the clutch lever in until ready to move. If the clutch system cannot fully engage or disengage (often referred to as 'clutch slip') then it is advised that you take the motorcycle to your nearest dealer for professional adjustment.

If the engine cannot be started successfully after multiple short attempts, wait for several minutes before the next attempt to protect the battery life.

To prolong the lifetime of your vehicle, run the motorcycle for 3-5 mins to warm the engine (as above) when cold starting. Do not use excessive RPM when warming the engine.

The idle speed is regulated by the ECU and cannot be manually changed. If the idle speed seems excessive or the engine consistently stalls, we advise you take your motorcycle to your nearest trusted Sinnis dealer for professional adjustment.

## **Riding Operation**

*The below guide assumes the engine is fully warmed and in neutral.*

1. Fully pull-in the clutch lever on the left handlebar.
2. Select 1<sup>st</sup> gear by pushing down on the gear selector lever on the left side of the motorcycle. (There should be an obvious feel of the gear engaging)
3. Put your right foot on the rear brake.
4. Gently rotate throttle and slowly release the clutch and rear brake simultaneously.

### **Side Stand Switch**

Your SINNIS motorcycle features a safety-switch mounted to the side stand. When preparing to set-off, if you select a gear from neutral with the side stand down, the engine will cut-out and not be able to restart until either side stand is in the up position or neutral is selected.

### **Shifting Gears**

Your SINNIS motorcycle transmission has 6 forward gears in a one-down, five-up shift pattern.

**CAUTION**

Once moving and the engine RPM continues to increase, change up through the available gears prior to the engine RPM reaching it's maximum level in order to prevent damage to the engine due to excessive RPM.

**WARNING**

Before riding, by UK laws you are obligated to wear a helmet. We recommend you also wear riding gloves, boots and protective clothing for your own personal safety.

If anything seems visually or functionally wrong about the vehicle, do not proceed to ride it. Take it to your nearest SINNIS authorised dealer.

Do not rotate the throttle or release the clutch suddenly when you want to set-off or during riding. This could cause the motorcycle to become unstable when riding.

On long journeys, do not ride consistently at the maximum engine RPM as this can damage your engine.

## MAINTENANCE

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## Importance of Maintenance

Keeping your motorcycle well-maintained is absolutely essential to your safety and to protect your investment, obtain maximum performance, avoid breakdowns and reduce the environmental impact of your motorcycle. Maintenance is the owner's responsibility. Be sure to inspect your motorcycle prior to each ride and perform periodic check specified in the Maintenance Schedule.

Failure to adhere to the maintenance schedule can invalidate your warranty.

Always read the maintenance instructions before you begin each task, and make sure that you have the tools, parts and skills required. We cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

When performing maintenance:

- Stop the engine and remove the key from the ignition.
- Place your motorcycle on a firm, level surface using the side stand, centre stand or maintenance stand to provide support.
- Allow the engine, exhaust, brakes and other high-temperature parts to cool before servicing as you could get burned.
- Run the engine only when instructed and do so in a well-ventilated area.

## **Maintenance Schedule Adherence**

The maintenance schedule specifies the maintenance requirements necessary to ensure safe, dependable performance and proper emission control.

Maintenance work should be performed in accordance with SINNIS standards and specifications by properly trained and equipped technicians. Your dealer meets all of these requirements. Keep an accurate record of maintenance to help ensure that your motorcycle is properly maintained. Make sure that whoever performs the maintenance completes this record.

All scheduled maintenance is considered a normal owner operating cost and will be charged to you by your dealer. Retain all receipts. If you sell your SINNIS motorcycle, these receipts should be transferred to the new owner.

SINNIS recommends that your dealer should road test your motorcycle after each periodic maintenance is carried out, to validate their work.

## Maintenance & Service Schedule

TIMING		PRE-RIDE CHECK	RUN-IN		PERIODIC SERVICING			ANNUAL CHECK
ITEM	1000KM 600MILES		3000KM 1800MILES	6000KM 3600MILES	9000KM 5400MILES	12000KM 7200MILES		
VALVE CLEARANCE		I	I	I	I	I	I	
SPARK PLUG		I	I	R	I	R	I	
AIR FILTER			C	C	R	C	C	
OIL FILTER		R	R	R	R	R	R	
ENGINE OIL		R	R	R	R	R	R	
OIL STRAINER			C/R	C/R	C/R	C/R		
FUEL LINES			I	I	I	I	I	
FUEL LEVEL	I							
THROTTLE OPERATION	I		I	I	I	I	I	

I: INSPECT      C: CLEAN      L: LUBRICATE      R: REPLACE

*(After inspection; clean, lubricate or replace if deemed necessary)*



ITEM	TIMING	PRE-RIDE CHECK	PERIODIC SERVICING				ANNUAL CHECK
			RUN-IN	1000KM 600MILES	3000KM 1800MILES	6000KM 3600MILES	
BRAKING SYSTEMS Discs / Pads / Calipers / Lighting Switches / Fluid							
CLUTCH SYSTEM Lever / Cable							
WHEEL BEARINGS							
STEERING BEARINGS							
SUSPENSION							
DRIVE CHAIN			EVERY 500KM/300M I+L				
DRIVE SPROCKETS							
TYRES							
BATTERY							
SIDE STAND Mechanism / Switch							
LIGHTS & HORN							
NUTS, BOLTS & FASTENERS							

- At higher odometer readings, repeat at the frequency interval established here.
- Service more frequently when riding consistently at full-throttle or in wet or dusty conditions.
- Replacement of components requires mechanical skill.

## Pre-Ride Inspection

#	ITEM	INSPECTION
1	Fuel system	Check for any leaks and tank is not overfilled.
2	Oil	Check the level of the oil is within the specified range.
3	Electrical system	Check dashboard and electrical switches are functional.
4	Battery	Check battery visually for leaks and any corrosion.
5	Clutch / Front Brake Lever	Check for any inconsitent or unintended movement.
6	Gearshift /Rear Brake Lever	Check for any inconsitent or unintended movement.
7	Throttle	Check for any inconsitent or unintended movement.
8	Steering mechanism	Check for any inconsitent or unintended movement.
9	Chain	Check chain (15-25mm) for signs of abraision. Regularly lubricate.
10	Tire/wheel	Check tire pressures, thread depth and for any visual signs of damage.
11	Illumination/signal indicator	Check headlight/sidelights and signal indicators are working correctly.
12	Braking Systems.	Check both braking systems for inconsistent or unintended performance. Visually inspect discs, calipers and hoses for any signs of damage.
13	Main/Side Stand	Check both the stands and chassis mouting points for any visual signs of damage or excessive wear.
14	Fastenings	Check for any fastenings which may appear to be loose. Tighten major components to the specified Torque value.

## Replacing Parts

Always use SINNIS Genuine Parts or their authorised equivalents to ensure reliability and safety. When ordering coloured components, specify the model name, colour and, if possible, code mentioned on the colour label.

## Battery Care

Your SINNIS motorcycle has a maintenance-free type battery. You do not have to check the battery electrolyte level or add distilled water.

You should however clean the batter terminals if they become dirty or corroded. To do this, remove the battery from the motorcycle and clean the terminals with a wire brush or sandpaper. Wear safety glasses.

The battery has a limited lifespan which can be influenced by many environmental and life-cycle factors. In order to best maintain the life of your battery it is recommend that you keep your battery well charged either via riding your motorcycle or by using an external charger.

If you are not going to ride for an extended period, remove the battery from the motorcycle and keep the battery indoors (at room temperature).

### **WARNING**

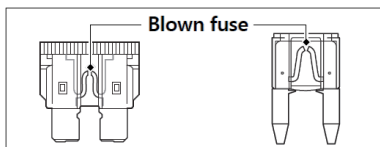
The battery can be permanently damaged if the cell cap-strip is removed.

An improperly disposed of battery can be harmful to the environment and human health. Always confirm local regulations for battery disposal.

## Fuse Replacement

Fuses protect the electrical circuits on your SINNIS motorcycle. If something electrical on your motorcycle ceases to power on or loses function, check for and replace any blown fuses.

To replace a fuse, first ensure the ignition of the motorcycle is in the off position. Identify the blown fuse and replace with a fuse of the same rating.



If a fuse fails repeatedly, you will likely have an electrical system fault. You should have the motorcycle inspected by your nearest SINNIS dealer.

### **CAUTION**

Replacing a fuse with one that has a higher rating greatly increase the chance of damage to the electrical system.

## Inspection & Replacement of the Engine Oil

### WARNING

Engine oil is harmful to the environment and should be disposed of properly. Consult your local authorities for guidance on where to dispose.

### Checking

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch to the off position and wait for 2 to 3 minutes.
3. Place your SINNIS motorcycle on its centre stand or maintenance stand on a firm, level surface.
4. Remove the oil fill cap/dipstick and wipe it clean.
5. Insert the oil fill cap/dipstick until it seats, but don't screw it in.
6. Remove and check that the oil level is between the upper and lower-level marks on the dipstick.
7. If the oil needs topping up, see below. If oil level is correct, securely reinstall the oil fill cap/dipstick.



### Adding

If the engine oil is below or near the level mark, add the recommended engine oil as per the servicing information.

**WARNING**

Do not overfill above the upper-level mark. Check the oil level after each pouring of oil into the engine. Multiple short top-ups with checks are better for ensuring the correct oil level, rather than one large top up.

Ensure that no foreign objects, dirt or other fluids enter the oil filler opening.

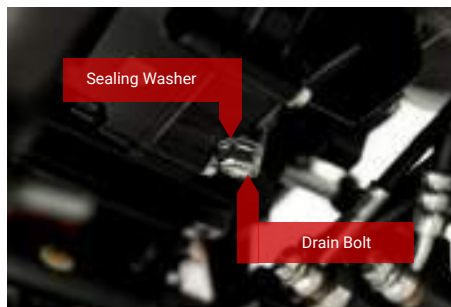
Wipe up any oil spills immediately.

**Replacing the Engine Oil**

1. If the engine is cold, idle the engine for 3 to 5 minutes.
2. Turn the ignition switch to the off position and wait for 2 to 3 minutes.
3. Place your SINNIS motorcycle on its centre stand or maintenance stand on a firm, level surface.
4. Place a drain pan under the drain bolt.
5. Remove the oil fill cap/dipstick, drain bolt and sealing washer to drain the oil.
6. Install a new sealing washer onto the drain bolt, then tighten to the specified torque value.
7. Fill the crankcase with the recommended grade of oil.
8. Ensure the engine is filled with the required amount of oil as per the servicing information.
9. Follow the steps in the Checking section to ensure the oil is at the correct level.
10. Check that there are no oil leaks.

**CAUTION**

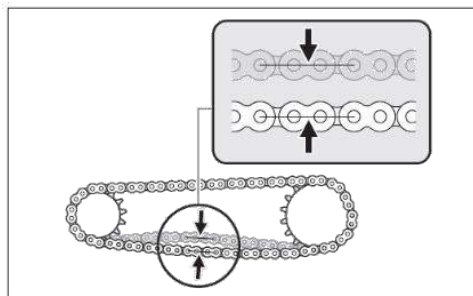
1. Support the motorcycle with main stand to check the oil level, to ensure an accurate reading.
2. It is advisable to get the engine oil replaced by a professional at your local Sinnis dealer, where possible. If carrying out this procedure yourself, use the engine oil recommended by your Sinnis dealer. Should you use anything other than the recommended oil for your engine, your manufacturer's warranty may become void.
3. Do not add any chemical additive into the engine oil, as this can cause the clutch to slip.
4. Overfilling with oil or operating with insufficient oil can cause damage to your SINNIS motorcycle engine. DO not mix different brands and grades of oil. They may affect lubrication and clutch operation.



## Drive Chain Inspection, Adjustment & Cleaning

Check the drive chain slack at several points along the chain. If the slack is not constant at all points, some links may be kinked and binding. Have the chain inspected by your nearest SINNIS dealer.

1. Shift the transmission to Neutral. Stop the engine.
2. Place your motorcycle on its centre stand on a firm, level surface.
3. Check the slack in the lower half of the drive chain, midway between the front and rear sprockets.
4. Rotate the rear wheel and check that the chain moves smoothly.
5. Inspect the front and rear sprockets.
6. Clean and lubricate the drive chain.



The normal operating tolerance for the drive chain slack is **15-25mm**.



### ***Adjusting the Drive Chain Slack***

Adjusting the chain requires special tools. If you do not have access to these tools you should have the drive chain slack adjusted by your nearest SINNIS dealer.

1. Shift the transmission into Neutral. Stop the engine.
2. Place your motorcycle on its centre stand on a firm, level surface.
3. Loosen the rear axle nut.
4. Loosen the lock nuts on both sides of the swingarm
5. Turn both adjusting nuts an equal number of turns until the correct drive chain slack is obtained.
6. Check the rear axle alignment by making sure the chain adjuster index marks align with the rear edge of the adjusting slots. Both marks should correspond. If the axle is misaligned, turn the respective adjusting nut until the marks are aligned and recheck chain slack.
7. Tighten the rear axle nut.
8. Tighten the drive chain adjusting nuts lightly. Then hold the adjusting nuts and tighten the lock nuts.
9. Recheck the drive chain slack.

#### **CAUTION**

Rear brake pedal free play is affected when repositioning the rear wheel to adjust the drive chain slack. Check the rear brake pedal free-play and adjust as necessary.

#### **WARNING**

If a torque wrench was not used for the installation, you should take your motorcycle to your nearest SINNIS dealer as soon as possible to verify proper assembly.

### ***Cleaning the Drive Chain***

Dirt should be cleaned from the chain using non-metallic bristled brushes and fabric cloths.

Cleaning of the chain should be completed using chain-specific cleaning products. If cleaning the chain while installed in the motorcycle, be sure to wipe down any excess cleaning products from the brakes, tyres, wheels, engine and swingarm.

Once the chain has been successfully cleaned ensure that chain-specific lubrication is applied in a uniform manner across the entire length of the chain.

#### **WARNING**

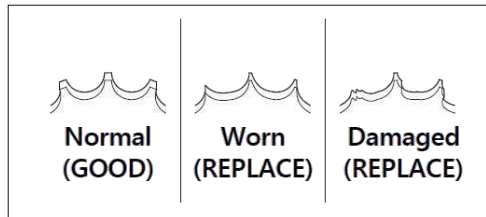
Never use petrol or low flash point solvents for cleaning the drive chain.

Avoid getting lubricant on the brakes and tyres.

Avoid applying excess chain lubricant to prevent spray onto your clothes and the motorcycle.

## Inspecting the Drive Chain Sprockets

If either of the sprockets on the motorcycle show any signs of wear or damage, they should be replaced by your nearest SINNIS dealer.



### **WARNING**

Use of a new chain with worn sprockets will cause rapid chain wear.

## **Tyre Condition**

Visually inspect your tyres and use an air pressure gauge to measure the air pressure at least once per month or any time you think the tyre does not look sufficiently inflated. Always check the pressure of your tyres when the tyres are cold.

### ***Exterior Condition***

Inspect the tyres for cuts, slits or cracks that expose fabric or cords within the tyre.

Inspect for screws, nails or other foreign objects embedded in the tyre or tread.

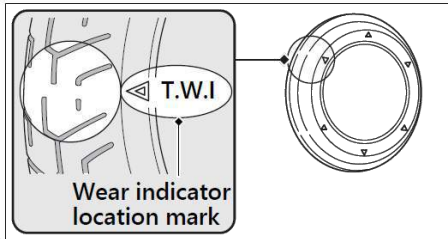
Inspect for any unusual bumps or bulges in the side walls of the tyres.

Inspect the tyres for signs of abnormal wear on the contact surface.

Inspect the valve of the tyre for any damage which may lead to a loss of pressure.

### **Tread Depth**

Inspect the tread wear indicators. If they become visible, replace the tyres immediately.



### **WARNING**

Riding on tyres that are damaged, excessively worn or improperly inflated can cause the motorcycle to perform inconsistently or unexpectedly and could result in a crash and harm to the rider, passenger or other parties.

## Air Filter Cleaning



A dusty and/or blocked air filter element will cause the motorcycle to operate with lower-than-expected power output, high fuel consumption and/or a high-fuel concentration of exhaust gas. The air filter should be inspected and cleaned periodically, as per the recommended maintenance schedule.

1. Remove the core of air cleaner.
2. Clear any dust and dirt from the core of the air filter with compressed air (if available) or replace the core. Clean the filter netting with warm water only and allow to dry before re-installing.
3. Re-install the air filter assemblies, ensuring that the filters are in the correct position and sealed properly. If riding in dusty environments, inspect, clean and/or replace the air filter more frequently.

**WARNING**

Do not clean the air filter components with any substances with flammable or alkaline properties.

Do not start the motorcycle without the air filter system installed correctly. The poor running conditions for the engine may result in abnormal wear to engine components.

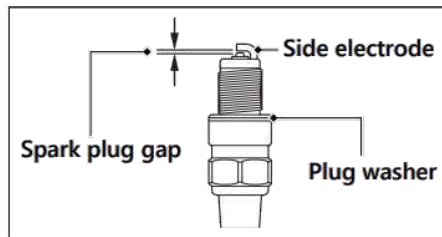
If you are concerned about the fitment of the air filter system, consult your nearest SINNIS dealer for guidance.

## Spark Plug Inspection & Adjustment

Spark plugs should be replaced according to the Maintenance Schedule.

Use only the recommended type of spark plug in the recommended heat range.

1. Disconnect the spark plug can from the spark plug.
2. Clean any dirt from around the spark plug base.
3. Remove the spark plug using a suitable spark plug tool.
4. Inspect the electrodes and centre porcelain for deposits, erosion or carbon fouling.
  - If the erosion or deposit is heavy, replace the spark plug.
  - Clean a carbon or wet-fouled plug with a plug cleaner, otherwise use a wire brush.
5. Check the spark plug gap using a wire-type feeler gauge.
  - If adjustment is necessary, bend the side electrode carefully.
6. The gap should be 0.6mm – 0.7mm.





7. Make sure the plug washer is in good condition.
8. Install the spark plug. With the plug washer attached, thread the spark plug in by hand to prevent cross-threading.
9. Tightening the spark plug:
  - If the old plug is good, 1/8 turn after it seats.
  - If installing a new plug, tighten it twice, first ½ turn after it seats. Then loosen the plug and tighten to 1/8 turn after it seats.
10. Reinstall the spark plug cap. Take care to avoid pinching any cables or wires.

**CAUTION**

An improperly tightened spark plug can cause damage to the engine.

## Electronic Fuel Injection (EFI) System

The function of the EFI System is to regulate the mixture of air and fuel which enters the combustion chamber of the engine of the motorcycle.

The EFI System is comprised of a system of inter-communicating components:

1. Engine Control Unit (ECU)
2. Fuel Injector
3. Throttle Body Assembly
4. Air Intake Pressure & Temperature Sensors
5. Ignition Coil
6. Crankshaft Position Sensor
7. Fuel Pump
8. Oxygen Sensor

### **CAUTION**

If during the operation of the motorcycle, the engine warning light is illuminated on the dashboard permanently, this may indicate a fault with the EFI system. Reduce speed and have your motorcycle inspected by your dealer as soon as possible.

## Braking System Inspection & Adjustment

### *Checking the Brake Fluid*

1. Place your motorcycle in an upright position on a firm, level surface.
2. Check that the brake fluid reservoir is horizontal and that the fluid level is between the LOWER and UPPER markings.

If the brake fluid level in either reservoir is below the LOWER-level mark, or the brake lever and pedal free-play becomes excessive, inspect the brake pads for wear.

If the brake pads are not worn, you most likely have a leak. Have your motorcycle inspected by your local SINNIS dealer.

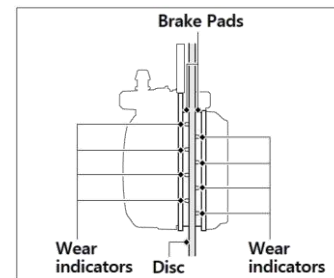
The recommended brake fluid is grade **DOT 4**.

### ***Inspecting the Brake Pads***

1. Check the condition of the brake pad wear indicators.
2. The pads need to be replaced if a brake pad is worn to the bottom of the indicator.
3. If necessary, have the pads replaced by your nearest SINNIS dealership.
4. Always replace both left and right brake pads at the same time.

### **CAUTION**

Brake Fluid can damage plastic and painted surfaces. Wipe up and spill immediately and wash thoroughly.



### ***Inspecting the Brake Discs***

- Check the condition of the brake discs, be sure to inspect for any uneven wear, warping or damage.
- The minimum brake disc thickness limit is 2mm.
- If the discs are worn to the limit or there is any evident damage, wear or warping ensure that your brake discs are replaced by your nearest SINNIS dealer.

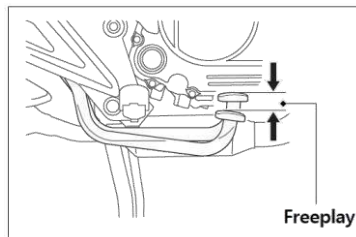
### ***Inspecting the Brake Lever Free-Play***

#### ***Front Brake***

- Measure the distance the lever travels to the point that the brake begins to engage. From its natural position to this point should be in the range of 10-20mm.
- If you feel any abnormal function, such as poor engagement or release of the brake system, please visit your nearest SINNIS dealership for inspection.

#### ***Rear Brake***

- Measure the distance the lever travels to the point that the brake begins to engage. From its natural position to this point should be in the range of 20-30mm.
- If you feel any abnormal function, such as poor engagement or release of the brake system, please visit your nearest SINNIS dealership for inspection.



**CAUTION**

After adjusting transmission chain or dismantling rear wheel, recheck and adjust the free stroke of rear brake pedal.

After adjusting rear brake, must read just rear brake light switch. Also check whether the wheel can rotate freely.

**Checking the Side-Stand**

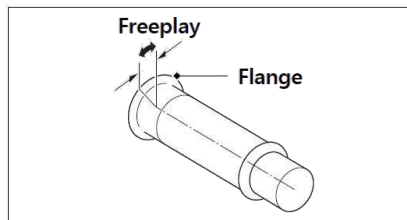
Check that the side stand operates smoothly. If the side stand is stiff or squeaky, clean the pivot area and lubricate the pivot bolt with clean grease.

Check the spring for damage or loss of tension.

## Checking the Throttle

With the engine off, check that the throttle rotates smoothly from fully closed to fully open in all steering positions and throttle free play is correct. If the throttle does not move smoothly, close automatically, or if the cable is damaged, have the motorcycle inspected by your nearest SINNIS dealer.

The tolerance of the throttle free-play is between 2-6mm.



## Checking the Clutch

Free-play at the Clutch Lever: **10-20mm**

- Check the clutch cable for kinks or signs of wear. If necessary, have it replaced by your nearest SINNIS dealer.
- Lubricate the clutch cable with a commercially available cable lubricant to prevent premature wear and corrosion.

## ***Adjusting the Clutch Lever Free play***

### *Upper Adjustment*

1. Pull back the rubber dust cover.
2. Loosen the upper lock nut.
3. Turn the upper clutch cable adjuster until the free-play is 10-20mm.
4. Tighten the upper lock nut and check the free-play again.
5. Install the rubber dust cover.

### *Lower Adjustment*

If the upper clutch cable adjuster is threaded out near its limit, or the correct free play cannot be obtained, attempt adjustment with the lower clutch cable adjusting nut.

1. Loosen the upper lock nut and turn the upper clutch cable adjuster all the way in (to provide maximum free play). Tighten the upper lock nut.
2. Loosen the lower lock nut.
3. Turn the lower adjusting nut until the clutch lever free-play is 10-20mm.
4. Tighten the lower lock nut and check the clutch lever free play.
5. Start the engine, pull the clutch lever in, and shift into gear. Make sure the engine does not stall and the motorcycle does not creep forward. Gradually release the clutch lever and open the throttle. Your SINNIS motorcycle should move smoothly and accelerate gradually.



### **Additional Electrical Accessories**

The electrical system of your SINNIS motorcycle has been designed such that it should not exceed 20w. Any aftermarket electrical items fitted, such as GPS, anti-theft alarms or additional lighting may overload the motorcycle's electrical capacity and potentially cause fire. It is recommended any additional electrical items you wish to have fitted to your motorcycle, are professionally fitted by your dealer, else you may damage the vehicle and void your Sinnis warranty.

**INFORMATION**

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## Cleaning & Storage

### *Cleaning*

Frequent cleaning and polishing are important to ensure the life of your SINNIS motorcycle. A clean motorcycle makes it easier to spot potential problems. In particular, seawater and salts used to prevent ice on road promote the formation of corrosion on metallic parts. Always wash your motorcycle thoroughly after riding on coastal or treated roads.

### *Washing*

Allow the engine, exhaust system, brakes and other high-temperature parts to cool before washing.

1. Rinse your motorcycle thoroughly using a low-pressure garden hose to remove loose dirt.
2. In necessary, use a sponge or a soft towel with mild cleaning agent to remove road grime.
  - Clean the headlight lens, painted panels and other plastic components with extra care to avoid scratching them.
  - Avoid directing water into the air cleaner, exhaust system and electrical parts.
3. Thoroughly rinse your motorcycle with plenty of clean water and dry with a soft, clean cloth.
4. After the motorcycle dries, lubricate any moving parts.
  - Make sure that no lubricant spills onto the brakes or tyres. Brake discs & pads contaminated with lubricant will suffer greatly reduced braking performance.
5. Lubricate the drive chain immediately after washing and drying the motorcycle.
6. Apply a coat of wax to prevent corrosion.
  - Avoid products that contain harsh detergents or chemical solvents. These can damage the metal, paint and plastic materials used in the components of your motorcycle. Keep the wax clear of the braking system and tyres.
  - On Matt painted components, use a matt paint specific protection to prolong the quality of the surface finish.

### **CAUTION**

Do not use high-pressure washers, they can damage moving and electrical parts rendering them inoperable. Water may also be forced into the engine induction system.

Do not direct water into the exhaust system. An exhaust system blocked with water can prevent the engine starting and will also corrode internal components.

Dry the brake system. Water adversely affects the braking performance. After washing, use a cloth or towel to dry braking components. When riding your SINNIS motorcycle for the first time after washing, exercise a high level of caution when applying the brakes for the first few instances.

Do not direct water under the seat. Electrical components and documentation are stored in the area shrouded by the seat. Water ingress may cause damage to these items.

Do not direct water into the air filter system. Water may enter into the engine and cause damage.

After washing, some condensation may be noticeable within the headlight. This should dissipate/evaporate after a few minutes of headlight illumination.

### ***Aluminium Components***

Aluminium components will corrode from contact with dirt, mud or road salts. Clean aluminium parts regularly to prevent corrosion build up. Do not clean aluminium components with other metallic or highly abrasive cleaners as this will likely scratch the parts, leading to further corrosion.

## Storage

If you store your motorcycle outdoors, you should consider using a full-body motorcycle cover.

If you know that you will not be riding your SINNIS motorcycle for an extended period, follow the below guidelines:

1. Wash your motorcycle and wax all painted surfaces (except Matt painted surfaces). Coat metallic components with rust-inhibiting oil.
2. Lubricate the drive chain.
3. Place your motorcycle on its centre stand and position a block so that both tyres are off the ground.
4. Remove the battery to prevent it from discharging. Charge the battery in a covered and well-ventilated area (if you leave the battery in place, disconnect the negative terminal to prevent discharging).

After removing your motorcycle from storage, inspect all maintenance items required by the Maintenance Schedule.

### **CAUTION**

When using a motorcycle cover, ensure that the engine and exhaust system has fully cooled before placing the cover on your motorcycle.

## Serial Numbers



1. The Vehicle Identification Number (VIN) is stamped on the head-tube of chassis
2. The Name-Plate is riveted the head-tube of chassis.
3. The Engine Number is stamped on the left side at the bottom of the crank-casing.

## **SINNIS Support Contacts**

### ***Address***

SINNIS Motorcycles, Ocean View Business Park, Gardner Road, Southwick, BN411PL.

### ***Email***

[parts@sinnis.co.uk](mailto:parts@sinnis.co.uk)

### ***Telephone***

01273 020 965

### ***Website***

[sinnismotorcycles.com](http://sinnismotorcycles.com)

### ***Online Parts Catalog & Spare Parts Ordering***

[parts.sinnismotorcycle.com](http://parts.sinnismotorcycle.com)

**SPECIFICATIONS**

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## Main Components

DETAIL	VALUE	DETAIL	VALUE
ENGINE TYPE	Single Cylinder 4-Stroke Water Cooled	WHEELBASE	1370mm
DISPLACEMENT	124.2cm <sup>3</sup>	SEAT HEIGHT	780mm
BORE & STROKE	58mm x 47mm	MINIMUM GROUND CLEARANCE	158mm
COMPRESSION RATIO	12:1	FUEL CAPACITY	14 Litres
STARTER TYPE	Electric	FUEL TYPE	Unleaded Petrol; 92 RON or higher
FUEL SYSTEM	Electronic Fuel Injection (EFI)	CURB WEIGHT	162kg
IGNITION TYPE	ECU Controlled	FUEL CONSUMPTION	2.2 L/100km
MAXIMUM POWER OUTPUT	9.5KW / 9500RPM (approx 12.7 BHP)	BRAKING SYSTEM TYPE	Front; Single Disc
MAXIMUM TORQUE	10.5NM / 7500RPM		Rear / Combined; Disc
MAXIMUM SPEED	90KMH / 56MPH	TYRE SIZE	Front; 100/80-17
TRANSMISSION	6-Speed		Rear; 120/80-17
OVERALL LENGTH	2090mm	PASSENGER CAPACITY	1 Rider + 1 Passenger
OVERALL WIDTH	865mm	MAXIMUM WEIGHT CAPACITY	150kg
OVERALL HEIGHT	1280mm	MAXIMUM LUGGAGE WEIGHT	5kg (per box)

## Service Data

DETAIL	SPECIFICATION
Front Tyre Size	90 / 80 - 17 M/C (52S)
Front Tyre Pressure	38 PSI / 2.5 Bar / 250 kPa
Rear Tyre Size	120 / 80 - 17 M/C (61S)
Rear Tyre Pressure	38 PSI / 2.5 Bar / 250 kPa
Spark Plug Type	CIRK (BOR)
Spark Plug Gap	0.6 - 0.7mm
Engine Idle Speed	1500 ± 100 RPM
Engine Oil Specification	SAE 10W-40 Full/Semi Synthetic
Engine Oil Capacity	1.1 L (After Draining) 1.2 L (After Disassembly)
Recommended Brake Fluid	DOT 4
Drive Chain Slack	15 - 25mm
Front Sprocket Size	14T (428)
Rear Sprocket Size	43T (428)
Headlight Bolt	12x 60/55 Nut (H4)

## Fuses

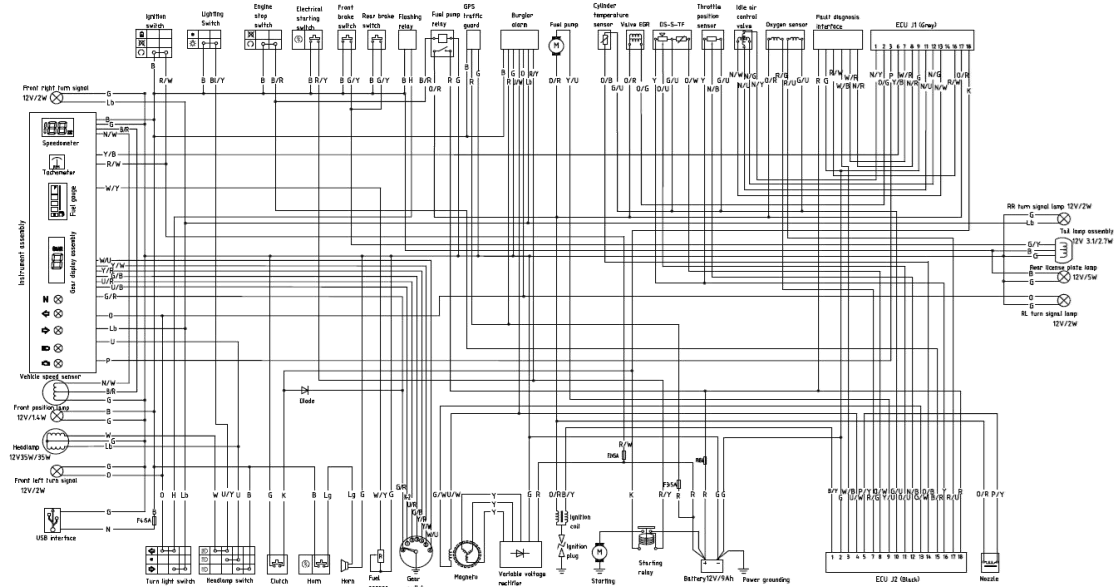
FUSE	RATING
MAIN	20A
EFI	15A
FAN	5A

## Torque Data

DETAIL	VALUE
Oil Drain Bolt	27 Nm / 19.9 ft-lb
Rear Axle Nuts	70 Nm / 51.6 ft-lb
Rear Chain Adjustment Nuts	19 Nm / 16.2 ft-lb
Front Axle Nuts	70 Nm / 51.6 ft-lb
Front Axle Pinch Bolts	18 Nm / 17.7 ft-lb
Front Brake Caliper Bolts	41 Nm / 36.8 ft-lb
Rear Brake Caliper Bolts	41 Nm / 31.0 ft-lb

# Circuit Diagram

Appendix : Electrical Schematic Diagram



Black-B, Red-R, Green-G, Orange-O, Blue-U, Purple-P  
 Grey-H, Pink-K, Brown-N, Light blue-Lb, Light green-Lg