

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

Vento - Vento_Triton_R4_Service_Manual

VENTO MOTORCYCLES
RevSno.01/Page 1 of 143

Triton 1R41
Service & Maintenance
Manual

VENTO MOTORCYCLES
RevSno.01/Page 2 of 143

VENTO MOTORCYCLES
RevSno.01/Page 3 of 143

This service manual has been specially prepared to provide all the necessary information for the proper maintenance and servicing of VENTO Triton 1R4 Scooter.

The Triton 1R41 has many features such as:

- V-belt drive automatic transmission
- Fan air cooling system
- CDI Ignition system
- Auto Ignition system
- Alarm System

This manual contains an introductory description on VENTO Triton 1R4 and procedures for Inspection/Service and overhaul of its main components. This Manual is intended those who have enough knowledge and skills for servicing of VENTO vehicles. Without such knowledge and skills you should not attempt servicing by relying on this manual only. Instead, please contact your nearly authorized VENTO motorcycle dealer.

FORWARD

INDEX
PERIODIC MAINTENANCE PROCEDURE 2
ENGINE 3

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

FUEL AND LUBRICATION SYSTEM 4

ELECTRICAL SYSTEM 5

CHASSIS 6

SERVICING INFORMATION 7

GENERAL INFORMATION 1

VENTO MOTORCYCLES

Revno.01/page 4 of 143

VENTO MOTORCYCLES

Revno.01/page 5 of 143

GENERAL INFORMATION

MODELS IDENTIFICATION 1.1

FUEL AND ENGINE OIL 1.1

BREAK-IN PROCEDURES 1.1

PRECAUTIONS AND GENERAL INSTRUCTIONS 1.2

SPECIFICATIONS 1.3

CONTENTS

VENTO MOTORCYCLES

Revno.01/page 6 of 143

1/1 GENERAL INFORMATION

TYPES & IDENTIFICATIONS

FRAME NUMBER

FRAME NUMBERS 1 is Engraving on the steel tube of frame as shown in figure.

ENGINE NUMBER

ENGINE NUMBER is Engraving on rear side

crankcase as Shown in figure.

Both FRAME NUMBERS AND ENGINE NUMBERS are designed especially for registration your scooter and for spare parts order.

FUEL AND ENGINE OIL RECOMMENDATION

Be sure to use specified fuel and engine oil.

Some specifications are as follows:

FUEL

Gasoline should be Unleaded, the octane number must be 90.

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

ENGINE OIL

For engine lubrication, you can use specified high quality two-stroke engine oil (without being diluted).

GEAR OIL

Use high quality, all-purpose SAE 85W/90 Gear oil for this scooter. Make sure that the Engine oil/Gear oil what you are using should come under API classification.

BREAK-IN PROCEDURES

During manufacture only the best possible materials are used and all machined parts are finished to a very high standard but it is still necessary to allow the moving parts to BREK/IN before subjecting the engine to maximum stresses. The future performance and reliability of the engine depends on the care and restraint during its early life.

General requirements are as follows:

Limit break-in speed

At the first 1000 kms (630 miles) mileage use throttle opening less than 1/2.

Up to 1600 Kms (1000 miles) mileage use throttle opening less than 3/4.

Upon reaching an odometer reading of 1600 Kms (1000 miles) you can subject the motorcycle to full throttle operation.

Do not maintain constant engine speed for an extended time period during any portion of the BREAK/IN period, try to vary the throttle position.

VENTO MOTORCYCLEs

Revno.01/page 7 of 143

1/2 GENERAL INFORMATION

PRECAUTIONS AND GENERAL INSTRUCTIONS

GENERAL PRECAUTIONS:

WARNING

- o Proper service and repair procedures are important for the safety of the service mechanic and the reliability of the vehicle.
- o When two or more persons are working together, pay attention to the safety of each other.
- o When it is necessary to run the engine indoors, make sure that the exhaust gas is forced outwards and ventilation should be proper.
- o When working with toxic or flammable materials, make sure that the area you work in is well ventilated and that you follow all off of the material manufacturers instructions.
- o Dont use gasoline as a cleaning agent.
- o After servicing the motorcycle check all lines i.e. fuel, oil and brake lines for leaks.
- o Whenever you remove Oil seals, Gaskets, packing, O-rings, Locking washers, Cotter pins, Circlips, and certain other parts as specified, be sure to replace them with ones. Also before installing these new parts be sure to remove any left out material from the mating surfaces.

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

- o Never reuse a circlip, when installing a new circlip, take care not to expand the end gap larger than required to slip the circlip the shaft. After installing a circlip, always ensure that it is completely seated in its groove and securely fitted.
- o Do not use self-locking nuts a few times over.
- o If parts replacement is necessary, replace the parts with VENTO Genuine parts or their equivalent.
- o When removing parts that are to be reused, keep them arranged in an orderly manner so that they may be reinstall in proper order and orientation.
- o Always use special tools when required.
- o Always use specified lubricant, bond & sealant.
- o While removing the battery, disconnect the Negative terminal/Cable first then Positive terminal/Cable and when reconnecting the battery, connect the Positive terminal/Cable first then Negative terminal/Cable.
- o During Service to electrical parts, if no need of battery power then please disconnects the Negative terminal/Cable of the battery.
- o During tightening of Cylinder head and crank case bolts and nuts start with larger diameter and ending with smaller diameter, from inside to outside diagonally, with the specified tightening torque values.
- o After reassembly, recheck parts for tightness and operation.

REPLACEMENT COMPONENTS

Be sure to use genuine VENTO spare parts or their equivalent. Genuine VENTO components are high quality parts, which are designed specially for VENTO vehicles.

CAUTION

Scooter/motorcycle may damage by using non genuine parts or parts that is not equivalent to VENTO parts and will be affecting performance also.

VENTO MOTORCYCLES

Revno.01/page 8 of 143

1/3 GENERAL INFORMATION

SPECIFICATIONS

DIMENSIONS

Overall length 1830mm

Overall width 695mm

Overall height 1160 mm

Wheel base 1295mm

Net weight 92kg

CHASSIS

Front shock absorber Hydraulic

Rear shock absorber Spring, Oil damp

Turning angle 48° (toward the

left & right)

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Front wheel 120/70-12

Rear wheel 130/70-12

Front brake Disc 190 mm

Rear brake Drum 110 mm

ENGINE

Type Two-stroke, fan cooling

Intake system Reed valve

No. of cylinder 1

Bore 40.0mm

Stroke 39.6mm

Displacement 49.8mL

Compression ratio 6.9:1

Carburetor Side draft

Air cleaner Dry PUS foam

Starting system Electric and kick start

Lubricating system Lubrication by Oil

pump

ELECTRICAL

Ignition System Electronic CDI

Ignition Timing 15° at 5000 RPM

Spark Plug NGK/R/BR8HS

Storage Battery Yuasa/YTX5L-BS

Battery Capacity 12V, 4Ah

Magneto ACS

Fuse 8 Amp

Headlight 12V 35/35 Watt

Turn Indicators (X4) 12V 10 Watt

Tail light/stop light 12V 5 Watt

Meter light 12V 1.7 Watt

Oil level Indicator light 12V 1.7 Watt

Turn signal Indicator light 12V 3 Watt

High beam Indicator light 12V/3 Watt

Alarm light (LED) 12V 1.7 Watt

CAPACITY

Fuel Tank 5.2L

Engine Lubricating Oil Tank 0.9L

Gear Oil 0.1L

TRANSMISSION

Clutch System Automatic, Centrifugal Type

Gears shifting mechanism Automatic

Primary Reduction 1

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Gear Reduction ratio

The first gear 4.0

The second gear 2.933

Drive System V-Belt drive

CVT Reduction ratio 0.8~2.2

VENTO MOTORCYCLES

Revno.01/page 9 of 143

PERIODIC MAINTENANCE AND SERVICE

Periodic maintenance and service schedule 2.1

Service and adjustment procedures 2.2

Storage battery