

**2001**

**Victory**  
MOTORCYCLES  
U S A

**Standard Cruiser**  
**SportCruiser™**  
**Deluxe Cruiser**

 **WARNING**

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.

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## FOREWORD

Congratulations on choosing a Victory Motorcycle! You should feel very satisfied knowing you will have such a tremendous amount of experience riding with you on the highway. Experience in design, engineering, and manufacturing went hand in hand to produce one of the best motorcycles on the market today.

All machines, no matter how well engineered, require a certain amount of maintenance. Before using your motorcycle, read through this manual and familiarize yourself with maintenance and operation procedures. Strictly adhere to the engine break-in procedure that begins on page 42. This may be the most important time spent in knowing how to keep your machine running perfectly every day.

This manual gives minor maintenance and repair procedures. Any major repairs should be performed at your Victory dealer by a skilled technician. Attempting major repairs yourself could lead to serious injury or death.

Your Victory dealer is the best source of information and assistance with any Victory questions or concerns you may have. Ultimately, all issues will be resolved by your dealer. If you believe your concerns warrant the attention of Victory Motorcycles, you may call Polaris Customer Service at 763-417-8650. We will assist your dealer as necessary to resolve any issues.

Victory has done its part to make your machine safe. However, safety will ultimately depend on you. Pay close attention and heed the following:

- ▲ Perform a pre-ride inspection before each outing;
- ▲ Always be alert when operating your motorcycle;
- ▲ Never drive while under the influence of drugs or alcohol;
- ▲ Know all local, state/province riding laws; and,
- ▲ Always ride within the limits of the law and your abilities.

## FOREWORD

In the event that you must locate an authorized Victory Dealer while traveling, please use one of the following two services:

Call 1-800-POLARIS, our toll-free dealer locator. You will be able to locate the nearest authorized Victory dealer by using the area code or zip code in which you are located.

Use our online dealer locator. Log on to [www.polarisindustries.com](http://www.polarisindustries.com) to obtain a list of authorized Victory dealers in any given state, zip code, or telephone area code.

All of us on the Victory team extend to you our best wishes for plenty of fun-filled, safe riding on your new motorcycle.

All information in this manual is based upon the latest product data and specifications available at the time of printing. Victory Motorcycle Division, Polaris Sales Inc. reserves the right to make product changes and improvements which may affect illustrations or explanations.

**NOTE:** This manual should be considered a part of the motorcycle and should remain with the motorcycle even if the machine is sold to another owner.

No part of this manual shall be reproduced or used without the written permission of Victory Motorcycle Division, Polaris Sales Inc.

***Illustrations included in this manual are general representations of parts having a similar function. Your model may differ.***

This motorcycle fully complies with all federal, state, and local emission and safety standards. To maintain these high standards, it is important that you and your dealer pay close attention to the recommended maintenance schedules and operating instructions contained within this manual.



## **The Polaris Preferred Registered Owners (PRO) Family Your Owner's Program**

As the owner of a new Victory/Polaris vehicle, you will automatically receive a FREE two-year membership in the PRO Club. It's an owner's program for Victory/Polaris owner's like you. People who have chosen the finest vehicle available, people who share an interest in Victory/Polaris and its products.

The membership is established in the month after the vehicle has been warranty registered. The membership information packet is mailed out with your first issue of PRO Magazine, the official magazine of the PRO Club.

The membership materials include:

- ✓ A personalized membership card to gain admission to special PRO-only events, activities, and to take advantage of special PRO member discounts at select events.
- ✓ Decals, including a PRO log and a Polaris logo, for use on any vehicle.
- ✓ Exclusive, one-time coupons for rebates of 10 to 20% off the purchase price of various Victory or Polaris products.
- ✓ A recap of the membership benefits and opportunities available to PRO Club members.

**As a PRO Club member, you're entitled to opportunities such as:**

✓ A FREE 2-year subscription to PRO Magazine, in which its contents will focus on rider activities, events, and personalities. PRO covers events and activities of Victory and Polaris riders around the world and provides exclusive insider information on Victory and Polaris vehicles, products, events, and activities.

✓ Special discounts and rebates available exclusively to PRO Club members.

✓ Opportunities extended only to PRO Club members, such as:

- Acquire PRO insurance for any Victory/Polaris vehicle.
- Enjoy PRO hospitality centers at national events
- Take part on PRO Club rides and activities, including the 24 PRO adventure Tours beginning in 2001 for Victory, ATV, Snowmobile, and Watercraft riders.
- Apply to serve on regional and national PRO Consumer Councils, which provide Victory/Polaris personnel with insights into riders' interest, views of the products, and riding experiences.
- Apply to participate as a guest rider at a Victory/Polaris product photo shoot.
- Purchase exclusive PRO Club sportswear and merchandise. The new PRO merchandise will be available on line and through PRO Magazine beginning early in 2000.

## UNDERSTANDING WARNINGS

**WARNINGS** identify special instructions or procedures which, if not correctly followed, could result in severe injury, or death. Read and follow all **WARNINGS** in this manual carefully.

*The following precautionary signal words are used throughout this manual to convey the following messages:*



**This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Your safety is involved!**

### **WARNING**

**Indicates a potential hazard which could result in severe injury or death.**

### **CAUTION**

**Indicates a potential hazard which may result in minor personal injury or damage to the motorcycle.**

### **CAUTION**

**Indicates a situation that can result in damage to the motorcycle.**

#### **NOTE:**

**The word “NOTE:” in this manual will alert you to key information or instructions.**



## SAFETY INFORMATION

**Understand and follow the safety measures listed in this section. Failure to do so can result in serious injury or death.**

- ✓ Please read this manual carefully and completely before operating this motorcycle.
- ✓ Do not attempt to operate this motorcycle until you have familiarized yourself with the controls and operating features.
- ✓ Do not attempt to operate this motorcycle until you have been trained in safe and proper riding techniques.
- ✓ Pre-ride inspections, following the recommended maintenance intervals, along with proper riding skills, can ensure that you will safely enjoy the capabilities and the reliability of this motorcycle.
- ✓ The engine and exhaust become very hot during operation and stay hot for a long period of time after operation. Never touch any part of the engine or exhaust during or after operation. Always wear clothing that covers your legs, ankles, and feet.

### **WARNING**

The safe use and operation of motorcycles is dependent on proper riding techniques. Every operator needs to know the following items before riding any motorcycle.

- Complete a motorcycle training course.\*
- Observe all WARNINGS, CAUTIONS, and NOTES in this manual.
- Obtain professional and qualified training to learn safe and proper riding techniques.
- Obtain professional technical service for maintenance items found in the owner's manual and as mechanical conditions warrant.

\* Call the Motorcycle Safety Foundation toll-free, 1-800-446-9227, to find out if a rider education course is being offered in your area.

## SAFETY INFORMATION

- ✓ Make pre-ride inspections a habit before each ride. Thorough inspections can help prevent accidents.
- ✓ This motorcycle is designed to transport the operator and one passenger only.
- ✓ Failure to be seen is the number one cause of motorcycle/automobile accidents. Making yourself conspicuous lessens the chance that an automobile operator will not see you. To make yourself more visible you should:
  - Wear brightly colored and reflective clothing and helmet.
  - Use extra caution when negotiating intersections. Intersections are the most likely place for a motorcycle accident to occur.
  - Don't ride in other motorist's blind spots. Make sure they can see you in their mirrors.
- ✓ Inexperienced operators are a leading cause of motorcycle accidents.
  - Professional and qualified training is available, make sure you are qualified before you begin riding your machine. Do not lend your machine to inexperienced operators.
  - Ride within your skills and limits. Don't be afraid of slowing down or taking another route until you are confident of your abilities.
- ✓ Practice riding your motorcycle out of traffic areas until you are comfortable with the characteristics of the machine and its controls.

## SAFETY INFORMATION

- ✓ Many motorcycle accidents are caused by operator error, such as excessive speed.
  - Always obey posted speed limits.
  - Riding this motorcycle at speeds in excess of the posted speed limit increases your chances of losing control of the motorcycle.
  - Reduce your speed if conditions warrant it.
- ✓ Always signal before turning or changing lanes. Don't take it for granted that other motorists have seen you. Check your mirrors and turn your head before changing lanes.
- ✓ The operator and the passenger are integral parts of the handling characteristics of a motorcycle.
  - The operator should keep both hands on the handlebars and both feet on the operator footrests whenever the machine is being operated.
  - The passenger should always hold on to the operator or the handhold strap and keep both feet on the passenger footrests.
  - Never carry a passenger unless he or she can firmly place both feet on the passenger footrests.
- ✓ **Never** use alcohol or drugs before or while operating this vehicle.
- ✓ This motorcycle is designed for paved road use only. It is not suitable for off-road use.

# SAFETY INFORMATION

## Protective Apparel

### **WARNING**

The operator and passenger must always wear a helmet.

Head injuries are the main cause of motorcycle fatalities. The use of an approved safety helmet is critical to the prevention or reduction of head injuries.

- ✓ **Always** wear a D.O.T. or SNELL approved helmet.
- ✓ **Always** use a face shield or goggles to protect your eyes. Impaired vision can contribute to accidents.
- ✓ **Always** wear heavy boots, long sleeved jacket, gloves, and trousers to reduce the severity of lacerations, abrasions or burns.
- ✓ **Never** wear loose fitting clothing. Loose fitting clothing can impair the operation of controls, become entangled in moving parts (wheels, drive belt, etc.), or impair vision and/or control and cause an accident.

## Modifications

- ✓ Modifications made to your motorcycle that are not approved by Victory may render your motorcycle unsafe for use and may cause accidents. This includes the removal of original equipment. Modifications may also make your motorcycle illegal to use and, in some instances, can void your warranty
- ✓ Adding accessories or cargo can affect handling and stability because the weight distribution can be altered. Use caution if adding cargo or accessories to your motorcycle.

# SAFETY INFORMATION

## Accessories

- ✓ Adding accessories to the Victory Motorcycle can affect its stability, handling characteristics, and safe operating speed.
- ✓ Genuine Victory accessories are specifically designed for Victory motorcycles and have been tested for fit, function and safety. You should use extreme caution when installing and using any non-Victory accessories. If you choose to use non-Victory accessories, you must be certain these accessories are safe for use with your Victory.

### **WARNING**

To prevent serious injury or death when using saddlebags:

- Never ride above 80 mph (120 kph) with saddlebags. Doing so could cause you to lose control. This maximum safe speed may be less. See Owner's Manual for more information.
- Do not exceed maximum load limit of 7 lbs (3.178 kg) in each saddlebag. Distribute weight evenly.
- Total weight of rider, passenger, accessories, and cargo must not exceed the motorcycle load capacity. (see Specifications, Page 81)

# SAFETY INFORMATION

## Loading

### **WARNING**

Overloading the Victory Motorcycle can affect its stability, handling characteristics, and safe operating speed. To prevent loss of control, follow these safety precautions.

- ✓ The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit. Refer to the specification page 81 to determine the load limit for your motorcycle.
- ✓ Accessory and cargo weight should be kept as low and close to the center of gravity of the machine as possible. Distribute the weight evenly on both sides of the machine.
- ✓ Shifting weights while operating the machine can upset the handling of the motorcycle. It is imperative to attach cargo and accessories securely. Inspect all accessory mounts and cargo attachments every time before riding your machine. Loose cargo can become entangled in wheels, belts, etc., and cause a serious accident.
- ✓ Heavy, large items should never be carried on the handlebars, front forks, or the front fender. Carrying large, heavy, bulky items in these areas will create, slow steering response, lessen your ability to see, and possibly cause loss of control.
- ✓ Your Victory motorcycle was not designed to pull trailers or attach sidecars. Doing so will drastically change the handling characteristics and is not recommended by Victory.

## SAFETY INFORMATION

- ✓ Do not install accessories or carry cargo that changes the design parameters of the machine. After installing accessories or cargo, carefully inspect the machine to determine if:
  - Ground clearance has been reduced
  - Cornering clearance has been reduced.
  - Suspension travel has been reduced.
  - Steering travel has been reduced or restricted.
  - Control operation has been obscured or restricted.
  - Lights or reflectors have been covered.

**NOTE:** Bulky accessories and/or cargo may change the aerodynamics of the machine and affect stability during normal riding, crosswinds or wind created by passing vehicles.

- ✓ Adding electrical accessories may exceed the capacity of the electrical system. This could lead to an electrical failure which could cause a dangerous loss of lights and/or engine power.
- ✓ Improper loading of your Victory motorcycle can adversely affect its handling and overload the tires.
  - This can cause a loss of control or a tire blow-out.
  - Always follow recommendations in this manual for loading of the motorcycle and care of tires. See pages 7 and 36.

## SAFE OPERATING RULES

- ✓ Before operating your new motorcycle it is your responsibility to read and follow operating and maintenance instructions in this manual. Follow these basic rules for your personal safety.
  - Know and respect the rules of the road. Read and understand this Owner's Manual. You should also read and know the contents of your state's motorcycle handbook, available at your local DMV.
  - Use only genuine Victory approved parts and accessories. Use of certain other manufacturer's performance parts will void your new motorcycle warranty. See your dealer for details.

## SAFETY INFORMATION

- Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well ventilated area with the engine turned off. Remove fuel filler cap slowly. Do not smoke or allow open flames or sparks when refueling or servicing the fuel system. Do not fill fuel tank above the bottom of the filler neck insert. Leave air space to allow for fuel expansion.
- ✓ Motorcycle exhaust contains poisonous carbon monoxide gas. Do not inhale exhaust gases and never run the engine in a closed garage or confined area.
  - Before starting engine, check for proper operation of brake, clutch, shifter, throttle controls, correct fuel and oil supply.
  - Be certain vehicle stand is up before riding the motorcycle. Riding with the stand unretracted can cause a serious crash, leading to injury or death!
  - A new motorcycle must be operated according to the special break-in procedure explained in this manual on page 41.
  - Operate the motorcycle only at moderate speed and out of traffic until you have become thoroughly familiar with its operation and handling characteristics under all conditions. If you are an inexperienced rider we recommend that you obtain information and formal training in correct motorcycle riding technique.
  - Do not exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist. High speed increases the influence of any other condition affecting stability and possibility of loss of control.
  - Pay strict attention to road surfaces and wind conditions. Any two wheeled vehicle may be subject to upsetting forces. Wind blasts from passing cars and trucks can cause stability to be upset. Be sure to stay aware of traffic surrounding you, road conditions, and weather conditions and adjust your riding style accordingly.



## SAFETY INFORMATION

### Fuel

#### **WARNING**

*Gasoline is extremely flammable and explosive under certain conditions.*

- Always stop the engine and refuel outdoors or in a well ventilated area.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
- Do not overfill the tank. Do not fill the tank neck above the fuel tank insert. Leave air space to allow for fuel expansion.
- If you get gasoline in your eyes or if you swallow gasoline, see your doctor immediately. Never try to syphon gasoline using mouth suction.
- If you spill gasoline on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area. Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.

#### **WARNING**

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm.

# SAFETY INFORMATION

## Parking

**NOTE:** When leaving the machine unattended make sure to remove the ignition key and lock the steering lock.

- ✓The engine and exhaust pipes may be hot. Park the machine in an area where children aren't likely to touch these hot areas.
- ✓The machine may fall over if parked on uneven and/or soft ground. Make sure to park your machine on level, firm surfaces. Be particularly careful when parking on black top especially in summer. The more asphalt warms, the softer it gets and when asphalt gets soft, the side stand will sink into the pavement, causing the bike to fall. Avoid this by placing a small (6" x 6" x 1/4") board under the foot of the stand.
- ✓Do not park the machine near flammable sources or open flame.

# SAFETY INFORMATION

## Important Labels

Your vehicle has a number of labels. Please read and understand them before riding your motorcycle. Some are identical on all models. Those indicated by a \* differ slightly between models.

### WARNING

- Additional accessories can reduce stability and safe operating speed. After windshield installation, if operation seems unsafe, immediately remove all accessories and cargo. Contact your dealer to fix the problem and remount the accessories.
- Windshields provide wind protection and increased riding comfort but will not protect you in a collision with another vehicle, the road, birds, or any other object.
- Do not ride with loose or damaged windshield or mounting hardware. Regularly check the hardware for tightness. Replace windshield if scratches cannot be removed and they obstruct clear vision.

### CAUTION

- Brake fluid and alcohol will permanently damage the plastic windshield.
- Do not clean the windshield with glass cleaners or rain protective products.

### CLEANING

- Clean windshield with a soft cloth and plenty of warm water. Dry with a soft clean cloth. Remove minor scratches with a quality plastic polishing compound.
- See windshield installation instructions and the Victory Owner's Manual for complete instructions on the proper care of your windshield.

Found on Deluxe Cruisers  
and on bikes with accessory windshields

# SAFETY INFORMATION

## Important Labels

Your vehicle has a number of labels. Please read and understand them before riding your motorcycle. Some are identical on all models. Those indicated by a \* differ slightly between models.

1\*

TIRE INFORMATION		
Cold Tire Pressures:		
Up to 200 lbs (91 kg) Load	Front	36 psi (250 kpa)
	Rear	38 psi (265 kpa)
Up to Maximum Load Capacity	Front	36 psi (250 kpa)
Maximum Load Capacity: 474 lbs (215 kg)	Rear	42 psi (290 kpa)
Tire Brand/Type:	Front	Dunlop D205F
	Rear	Dunlop D205
Tire size:	Front	120/70 ZR17
	Rear	180/55 ZR17
Minimum Recommended	Front	2/32"
Tire Center Tread Depth	Rear	2/32"
TIRES ARE TUBELESS		READ OWNER'S MANUAL

2\*

### Vehicle Emission Control Information Label

#### VEHICLE EMISSION CONTROL INFORMATION

ENGINE DISPLACEMENT: 1507cc

ENGINE FAMILY: 1VMCC01.5V92

THIS VEHICLE CONFORMS TO US EPA REGULATIONS APPLICABLE TO 2001 MODEL YEAR NEW MOTORCYCLES

ENGINE EXHAUST CONTROL SYSTEMS: SFI

#### ENGINE TUNE-UP SPECIFICATIONS

IGNITION TIMING: TIMING MARKED CENTERED

IDLE SPEED: 950 ± 50 RPM

IDLE MIXTURE: EFI CONTROLLED

VALVE CLEARANCE: HYDRAULIC TAPPET, SELF-ADJUSTING

SPARK PLUG: CHAMPION, RA8GHC SPARK PLUG GAP: 0.040" (1mm)

FUEL: 87 PUMP OCTANE OR HIGHER

OIL: 20W-40

VICTORY MOTORCYCLE DIVISION, Polaris Industries Inc.

2100 HWY 55

MEDINA, MN 55340



#### MOTORCYCLE NOISE EMISSION CONTROL INFORMATION

THIS 2001 VICTORY VMD42S1507 MOTORCYCLE, WITH EXHAUST asm.

no. 1260967. MEETS EPA NOISE EMISSION

REQUIREMENTS OF 80 dBA AT 2613 RPM BY THE FEDERAL TEST PROCEDURE. MODIFICATIONS WHICH CAUSE THIS MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARDS ARE

PROHIBITED BY FEDERAL LAW.

SEE OWNER'S MANUAL

# SAFETY INFORMATION

## Important Labels


Your vehicle has a number of labels. Please read and understand them before riding your motorcycle. Some are identical on all models. Those indicated by a \* differ slightly between models.

Month/Year:

Mfd By VICTORY MOTORCYCLE DIVISION, Polaris Industries Inc.  
GVWR/1150 lbs. (522 kg)

4\* GAWR / lbs. MOTORCYCLE  
F 382 lbs. (173 KG) 120/70 ZR17 Tire, 17" x 3.5", Rim at 36 psi (250 KPa) Cold  
R 768 lbs. (349 KG) 180/55 ZR 17 Tire, 17" x 5.5", Rim at 38 psi (265 KPa) Cold

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

5  **WARNING**

To prevent serious injury or death when using saddlebags:

- Never ride above 80 mph (120 kph) with saddlebags. Doing so could cause you to lose control. This maximum safe speed may be less. See Owner's Manual for more information.
- Do not exceed a maximum load limit of 7 lbs (3.178 kg) in each saddlebag. Distribute weight evenly.
- Total weight of rider, passenger, accessories, and cargo must not exceed the motorcycle load capacity in Owner's Manual and tire information label.

Found on Deluxe Cruiser

# SAFETY INFORMATION

## Important Labels

Your vehicle has a number of labels. Please read and understand them before riding your motorcycle. Some are identical on all models. Those indicated by a \* differ slightly between models.

6



### PATENT NOTICE

Mfd by Victory Motorcycle Division,  
Polaris Industries Inc., under one or more of the  
following patents:  
Other patents pending, U.S. Patents.  
D, 397,976 D, 407,169 D, 416,831  
D, 398,065 D, 409,551

7078697

7

### **WARNING**

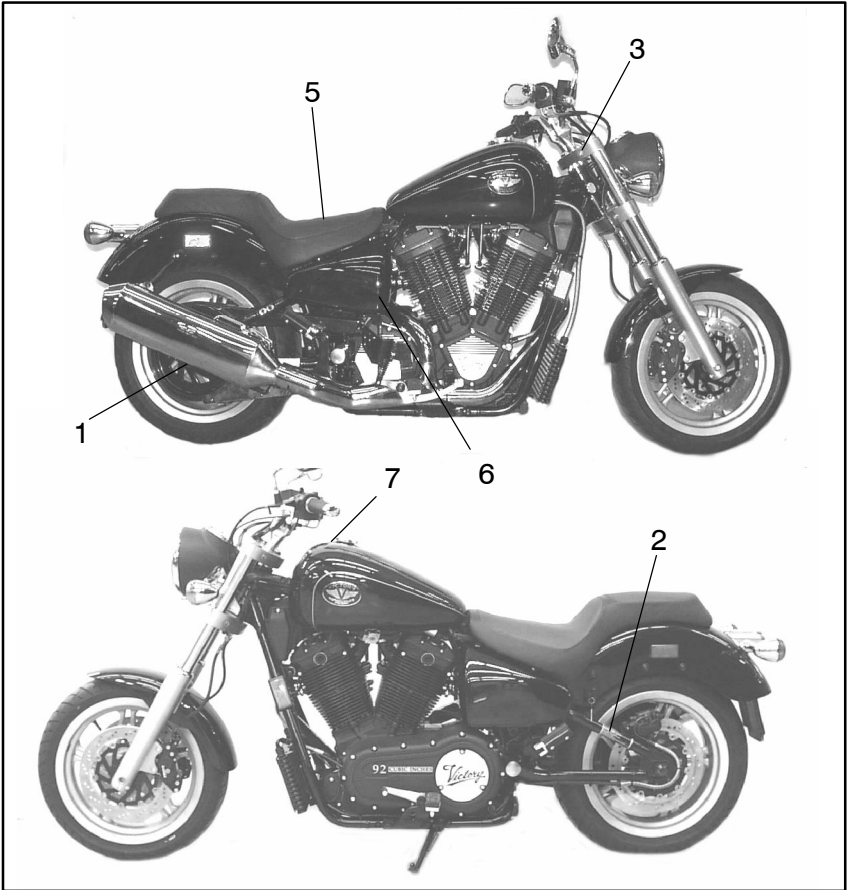
- Read Owner's Manual and, during use, follow all safety precautions.
- Always wear an approved helmet, eye protection and protective clothing.
- If your Owner's Manual is missing, contact a Victory / Polaris dealer for a replacement.

**UNLEADED FUEL RECOMMENDED**

7079199

# SAFETY INFORMATION

## Label Location

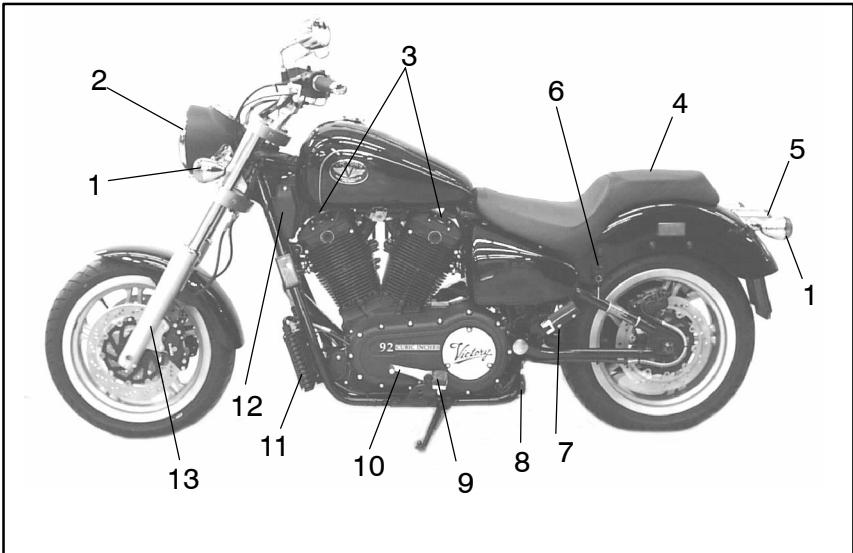


1. Tire Information (located on RH lower swing arm)
2. Vehicle Emission (located on LH lower swingarm)
3. VIN Decal (located on Steer Head)
4. Saddlebag Warning (located on Deluxe Cruiser)
5. Patent Decal
6. Fuse Box Layout  
(Located in fusebox under right-hand side cover)  
(see page 62)
7. Operation Warning

# VEHICLE DESCRIPTION

## Left Side of Machine

**NOTE:** The machine shown below is a SportCruiser™. The components listed are located in the same place on all the bikes unless stated otherwise.



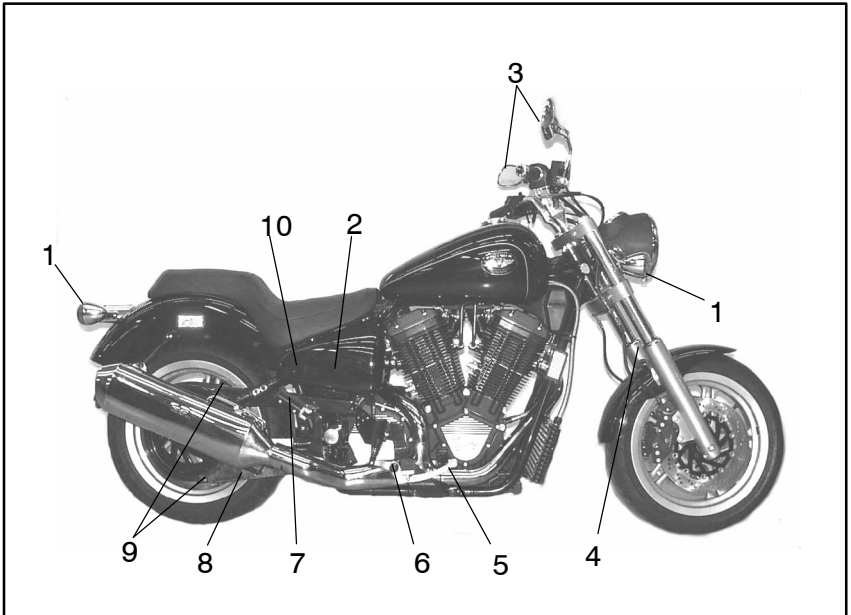
1. Left Turn Signal
2. Headlamp
3. Spark Plugs
4. Passenger Seat
5. Tail/Brake Lamp
6. Seat Latch (key)
7. Passenger Foot Rest
8. Oil Filter
9. Operator Foot Rest
10. Shift Lever
11. Oil Cooler
12. Air Filter Access
13. Front Fork



# VEHICLE DESCRIPTION

## Right Side of Machine

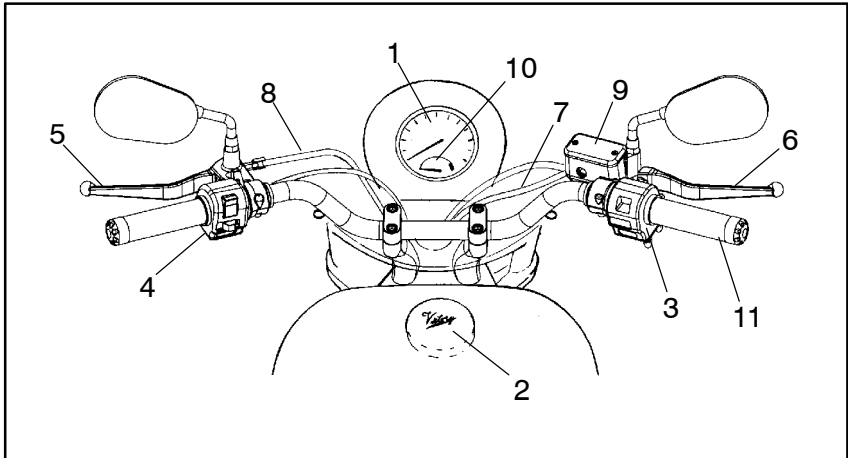
**NOTE:** The machine shown below is a SportCruiser™. The components listed are located in the same place on all the bikes unless stated otherwise.



1. Right Turn Signal
2. Right Side Cover
3. Rear View Mirrors
4. Rear Brake Reservoir (Standard Cruiser, Deluxe Cruiser)
5. Rear Brake Pedal
6. Operator Foot Rest
7. Passenger Foot Rest
8. Exhaust Muffler
9. Drive Belt Guard
10. Rear Brake Reservoir (SportCruiser™)

# VEHICLE DESCRIPTION

## Top View of Machine



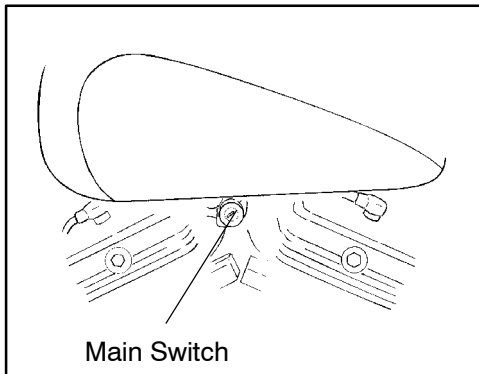
1. Speedometer
2. Fuel Cap
3. Right Handlebar Control
4. Left Handlebar Control
5. Clutch Lever
6. Front Brake Lever
7. Throttle Cables
8. Clutch Cable
9. Front Brake Fluid Reservoir
10. Tachometer
11. Throttle Control (twist grip)

# CONTROL PARTS AND FUNCTIONS

## Main Switch Controls

The main switch is located underneath the gas tank on the left-hand side. It controls the ignition and lighting systems. Its operation is described below:

**ON:** Electrical circuits are switched on, and the headlight, meter light, taillight and front running lights come on. The engine can be started. The key cannot be removed in this position.



**OFF:** All electrical circuits are switched off. The key can be removed in this position.

**PARK:** To get the switch into park, you must push the key in while turning. When the switch is in park, the taillights and running lights come on and the key can be removed.

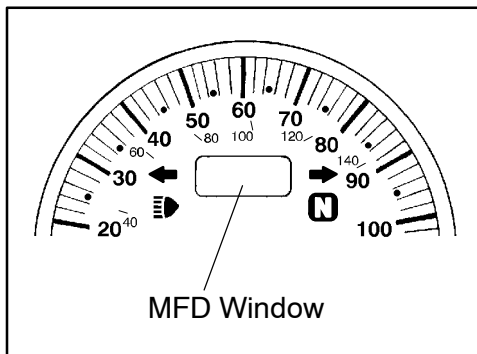
**NOTE:** Always turn the main switch "OFF" and remove the key when the motorcycle is unattended. Do not rely on the emergency stop switch for normal stop circumstances. For more information on the emergency stop switch, refer to page 23.

# CONTROL PARTS AND FUNCTIONS

## Multi-Function Display (MFD)

The speedometer is equipped with an MFD window.

Using the trip function of the MFD will allow you to determine how far you can ride on a tank of fuel. Each operator will get varying MPG depending upon riding style and conditions. This information will allow you to plan for fuel stops.



For a more detailed explanation of the functions and operation of the MFD, turn to page 72.

# CONTROL PARTS AND FUNCTIONS

## Left Handlebar Controls

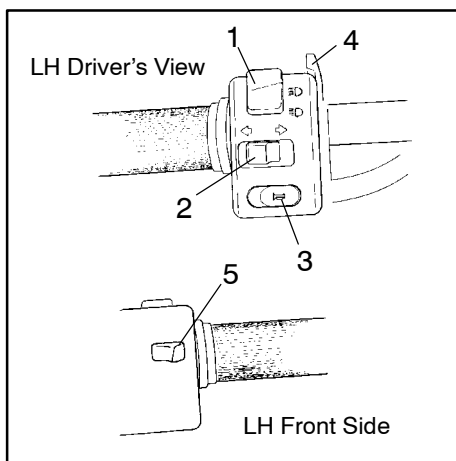
1. **Dimmer and passing light switch** is pushed up for the high beam, middle position is low beam and bottom position is momentary passing beam.

2. **Turn signal switch** is pushed to the right to signal a right-hand turn and pushed to the left to signal a left-hand turn. Once the switch is released it will return to the center position. To cancel the signal, push the switch in after it has returned to the center position. **NOTE:** The turn signals are self cancelling at speeds above 6 miles per hour.

3. **Horn switch** sounds the horn when pressed.

4. **Fast idle lever** is for cold starting (See page 40 for starting procedure).

5. **Set Selector:** Odometer, Trip Odometer, Clock, Back Light Dimming, High Beam Icon Dimming, Fuel Level, Charging System Voltage, Diagnostics, English/Metric Display. **NOTE:** These features are used in conjunction with the mode selector. (See page 72 for setting procedure.)



# CONTROL PARTS AND FUNCTIONS

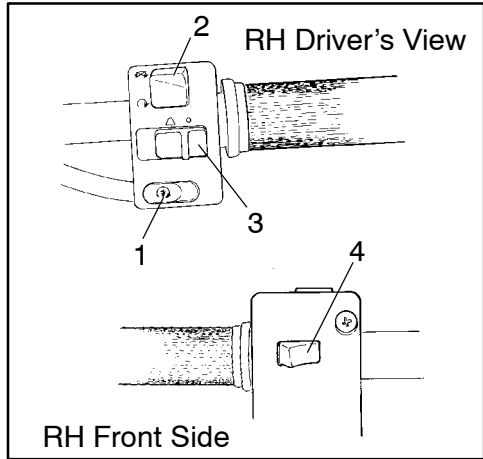
## Right Handlebar Controls

1. **Starter switch** cranks the starter motor when pushed.

2. **Engine Stop Switch** is a safety device for use in an emergency such as when the motorcycle overturns or if trouble occurs in the throttle system. To start the engine, the switch must be in the down position. In case of emergency, move the switch up to stop the engine.

3. **Hazard Switch** turns on flashing hazard lights.

4. **Mode Selector** Refer to page 72 for functions and setting procedure.



Many of these features are used in conjunction with the Set Switch.

- (Clock: Digital from 0 to 12:00 without am/pm indicator, includes icon.
- Odometer: Switchable between miles and kilometers, includes icon, default startup mode is in miles.
- Trip Odometer: Can be reset to zero, displays miles or kilometers, includes icon.
- Fuel Level: Indicates in 1/10th gallons or liters, no icon.
- High Beam Icon Dimming: 4-bar scale, 3 bars "on" is default, no icon, only HB text.
- Back Lighting Dimming: 6-bar scale, 4 bars "on" is default, includes icon.
- Charging System Voltage: When engine is running, LCD will display charging voltage (ALT). Battery voltage (BAT) is displayed when engine is not running.
- Diagnostics: ECU fault/engine control fault indicator display is "CK ENG", if engine is not idling the LCD will flash "CK ENG".

# CONTROL PARTS AND FUNCTIONS

## Indicator Lights

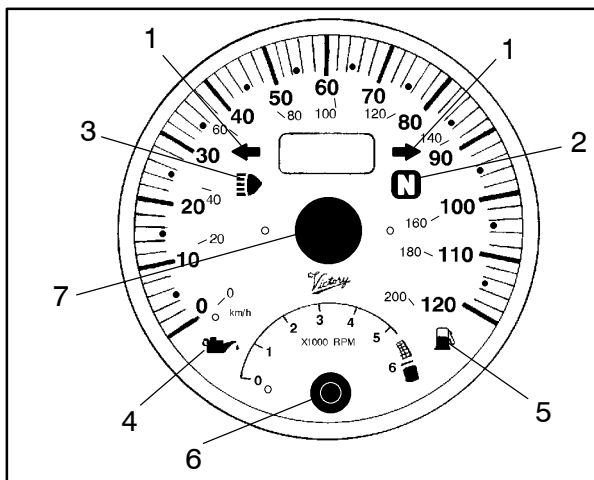
### 1. Turn Indicator Light -

flashes when the turn switch is moved to the left or right.

**NOTE:** A failed turn signal bulb will cause the turn signal indicator to flash at a high rate of speed (i.e. greater than

twice the normal

frequency). If this is observed by the operator, he/she should immediately inspect the function of the turn signals and correct any possible problems.



## WARNING

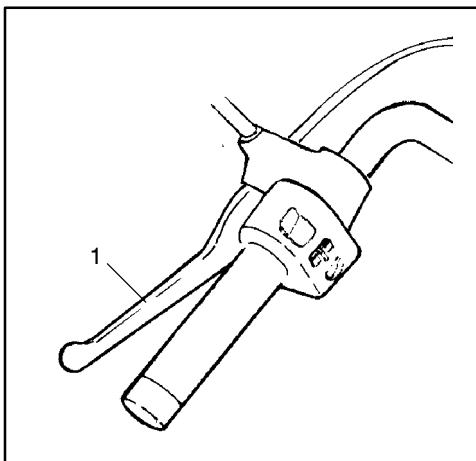
Always fix faulty turn signal bulbs immediately. Failure to do so could result in an accident causing serious injury or death.

2. **Neutral** indicator light “N” - comes on when the transmission is in neutral.
3. **High beam** Indicator light - comes on when the headlight high beam is used.
4. **Low oil pressure** indicator light - comes on if the oil pressure is low.
5. **Fuel** level indicator light - comes on when the fuel level is low.
6. **Tachometer** - indicates engine rpm
7. **Speedometer** - indicates vehicle speed in mph or kph

# CONTROL PARTS AND FUNCTIONS

## Clutch Lever

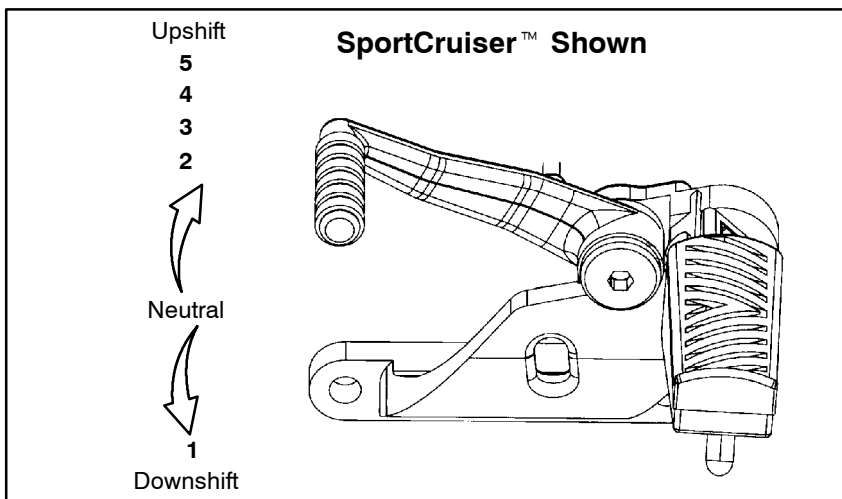
This machine is equipped with a manually actuated clutch. The clutch lever (1) is located on the left handlebar. Pull the lever completely to the handlebars to disengage the clutch, and release the lever to engage the clutch. The lever should be pulled in rapidly and released slowly and smoothly for smooth clutch operation.



This machine is equipped with a clutch interlock switch. This switch prevents starting the machine with the transmission in gear unless the clutch is disengaged (lever pulled in).

## Shift Pedal

The shift pedal is located on the left side of the engine and is used in combination with the clutch when shifting.





# CONTROL PARTS AND FUNCTIONS

## **WARNING**

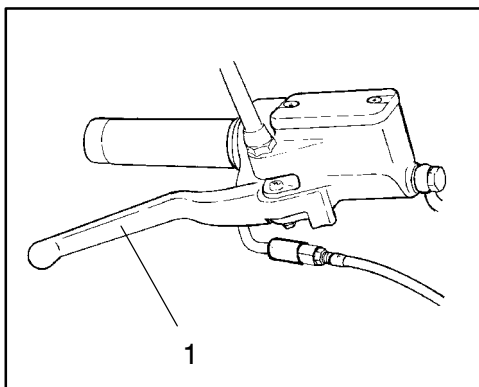
**Always use both brakes evenly.**

The front brake on this motorcycle is very powerful and when used alone, can stop the front wheel rotation causing a skid, which can lead to a crash and severe injury or death.

Do not brake suddenly or abruptly. Obtain training from a qualified instructor before riding your new Victory motorcycle.

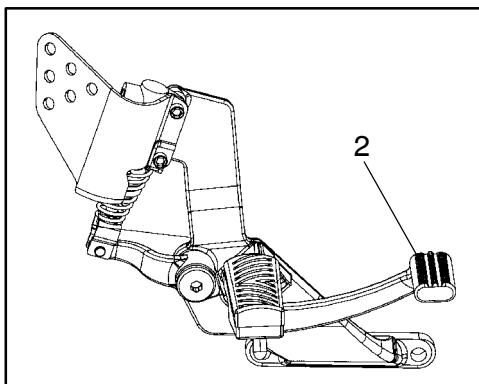
### **Front Brake Lever**

The front brake lever (1) is located on the right handlebar. Pull it toward the handlebar to apply the front brake.



### **Rear Brake Pedal**

The rear brake pedal (2) is located on the right side of the motorcycle. Press down on the brake pedal to apply the rear brake.



**NOTE:** SportCruiser™ brake pedal shown.

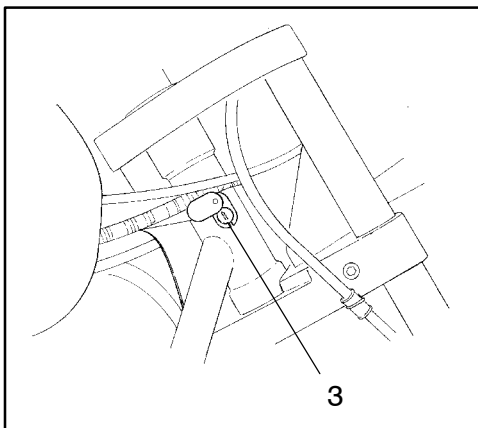
## CONTROL PARTS AND FUNCTIONS

### **WARNING**

Never push or operate your motorcycle with the steering locked. Operation of the vehicle with the steering locked could cause an accident resulting in injury or death.

### **Steering Lock**

There is a steering lock (3) located on the right side of the steering head. To lock the steering, turn the handlebars all the way to the left. Open the steering lock cover, push the key inward and turn it 1/8 turn counterclockwise. Remove the key from the lock and close the cover. To unlock the steering, turn the key to the original position. It may be necessary to turn the handlebars slightly to the left or right to relieve pressure on the steering lock pin.



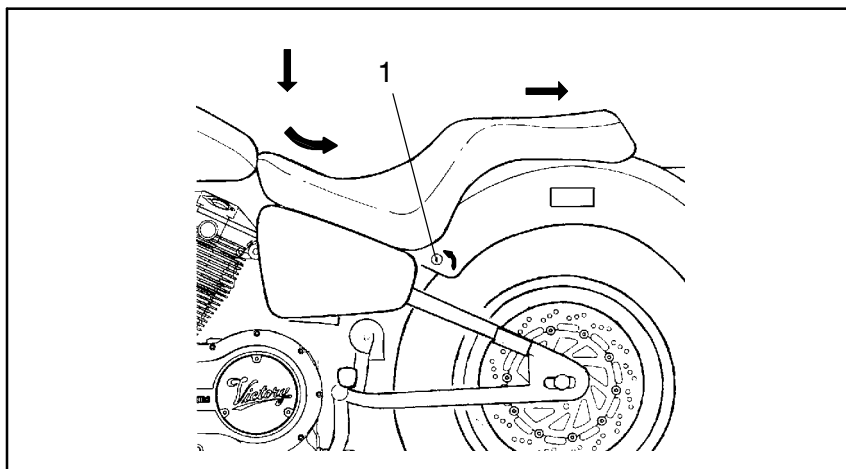
# CONTROL PARTS AND FUNCTIONS

## Seat - SportCruiser™

The seat lock (1) is located behind the seat on the left side. To unlock the seat:

1. Insert the key and turn it counterclockwise.
2. Lift and remove the seat.

**NOTE:** Make certain the seat is securely locked.



## **⚠️ WARNING**

Never ride with a helmet in the helmet holder. The helmet may hit foreign objects, causing loss of control possibly resulting in serious injury or death.

# CONTROL PARTS AND FUNCTIONS

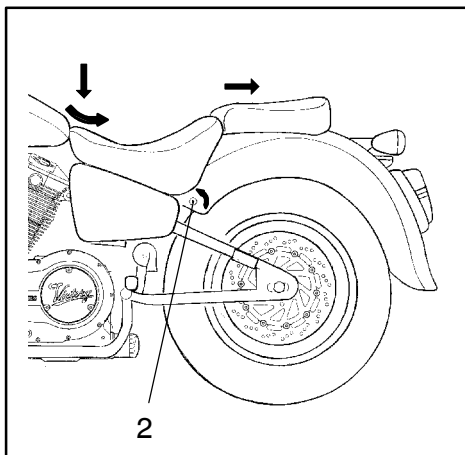
## Seat - Standard Cruiser / Deluxe Cruiser

The seat lock (2) is located behind the seat on the left side. To unlock the seat:

1. Insert the key and turn it counterclockwise.
2. Lift and remove the seat.
3. To lock the seat, insert the tongue of the front seat into the holder of the rear seat base.

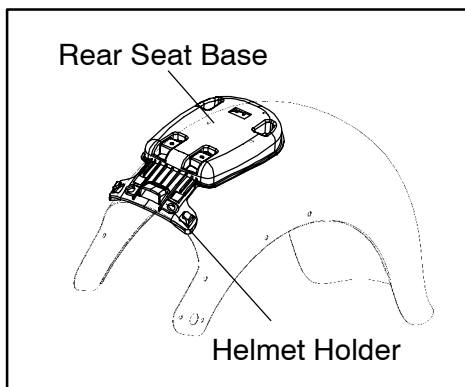
Push down on the front of the seat to engage the seat lock.

**NOTE:** Always make certain the seat is securely locked.



## WARNING

Never ride with a helmet in the helmet holder. The helmet may hit foreign objects, causing loss of control and possibly resulting in serious injury or death.



## PRE-RIDE INSPECTION

### **WARNING**

Failure to perform a proper pre-ride inspection before each use could lead to serious injury or death.

If any item in the Pre-Operation check needs repair, have it repaired before operating the motorcycle.

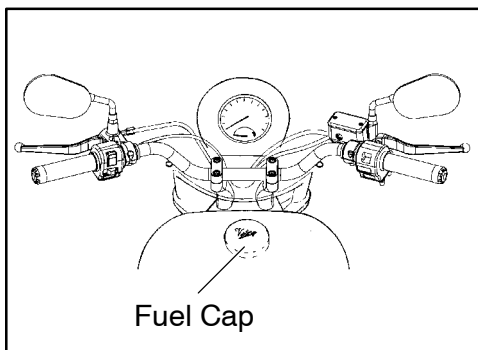
No.	ITEM	PROCEDURE	PAGE
1	Engine Oil	Check level, add oil if necessary	32
2	Fuel	Check level, add fuel if necessary	31
3	Front & Rear Brakes	Check fluid level and check for leaks. Inspect wear indicator on brake pads. Verify operation.	33 and 55
4	Clutch	Check operation, adjust if necessary.	56
5	Drive Belt	Check tension. Check for wear and damage.	65
6	Tires	Check pressure and wear. Check for damage.	36
7	Throttle Operation	Check for smooth operation and proper return.	35
8	Lights, signals, and switches	Check for proper operation	35
9	Fittings & fasteners	Check all chassis fittings and fasteners.	36

# PRE-RIDE INSPECTION

## Fuel Cap

Grasp the fuel cap and turn it counter-clockwise to remove it.

To replace the fuel cap, place the fuel cap in position and turn it clockwise until it ratchets. Do not turn the fuel cap counter-clockwise to align the Victory logo. This may cause the fuel cap to loosen during operation.



## Fuel Safety Precautions

- ✓ Do not overfill the fuel tank.
- ✓ Avoid spilling fuel on a hot engine.
- ✓ Do not fill the fuel tank above the bottom of the filler tube or it may overflow when the fuel heats up and expands.
- ✓ Be sure the fuel cap is tight before riding the motorcycle.

# PRE-RIDE INSPECTION

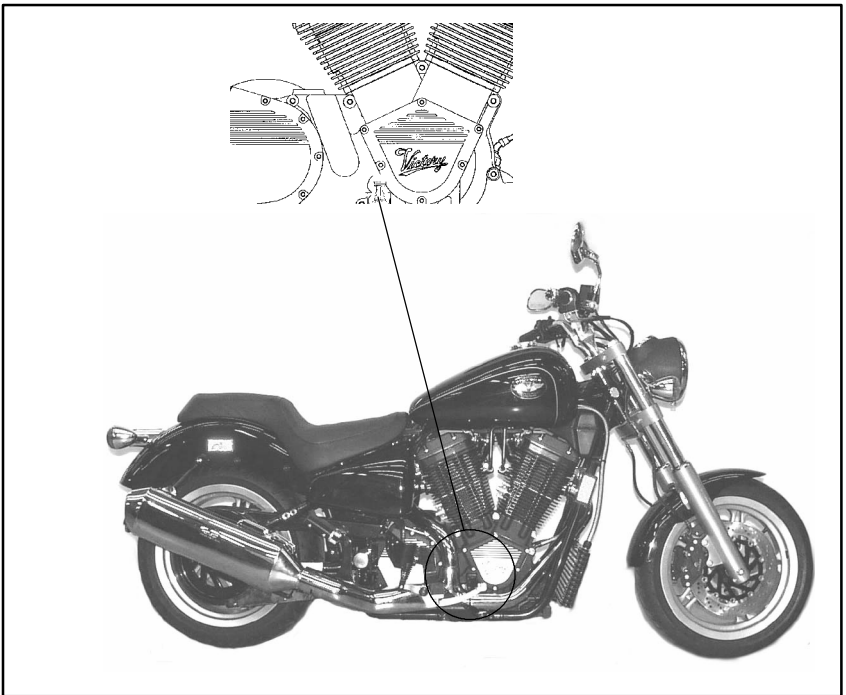
## Engine Oil

### CAUTION

Running with low oil level can lead to engine overheating and seizure.

The engine lubrication oil is Victory 20W-40 semi-synthetic oil. It is specially formulated for lubrication and cooling attributes for Victory engines.

Make certain the engine oil is at the specified level. Fill with oil as directed on pages 49 and 50.



## PRE-RIDE INSPECTION

### Front and Rear Brakes

# WARNING

Operating your motorcycle with inadequate or faulty brakes could cause an accident, leading to serious injury or death.

Before riding, check the levels of the brake fluid and add if necessary.

Low brake fluid levels may let air enter the brake system, possibly creating poor or non-existent braking leading to an accident causing serious injury or death. Turn to page 54 for more information on adding brake fluid..

Do not operate the motorcycle if the brakes have a soft or spongy feeling when applied. This could be indicating a hazardous condition that should be repaired by your Victory dealer immediately.

Make certain both the front brakes and rear brakes are working properly. Test them at low speed shortly after starting out. Refer to page 17 for component locations.



# PRE-RIDE INSPECTION

## Brake Fluid Level / Leakage

### CAUTION

Do Not Mix Fluids. Use only DOT4 brake fluid.

**A** - View of RH handlebar from front (1 - front brake lever)

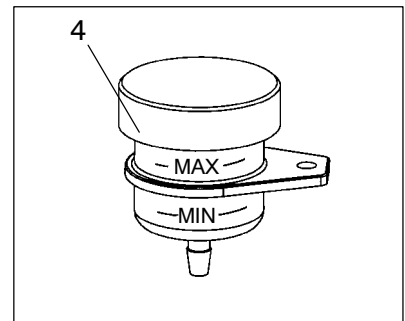
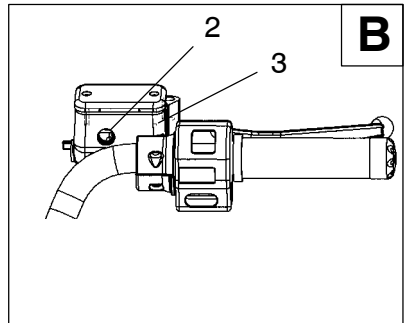
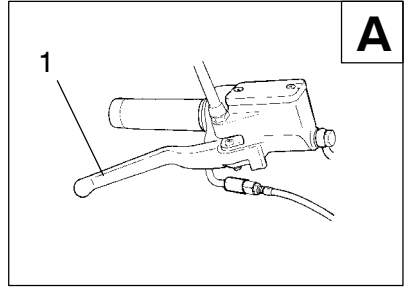
**B** - Operators view of RH Handlebar

Check the brake fluid in both the front master cylinder reservoir (2) and the rear brake fluid reservoir (4).

Brake fluid must be visible in the window (3) on the front master cylinder reservoir. To check the level, rest the bike on the side-stand and turn the handlebars until the master cylinder is level.

To check the rear brake fluid, stand the bike up in the vertical position. Check the level between the max and min lines on reservoir.

Apply each brake for several seconds. Check to see if any fluid leaks out from the hoses, joints, master cylinders or calipers. If any leakage is found, take the motorcycle to a Victory dealer for repairs. Do not operate the vehicle if leaks are present. (rear brake - 4)



# PRE-RIDE INSPECTION

## Clutch

Make certain the clutch is working properly. Operate the clutch a few times and check for smooth operation and proper free-play (.080"/2mm). If adjustment is necessary, refer to page 56.

## Throttle

Make sure the throttle grip operates properly and check the free-play. The grip should return when released. If the throttle does not rotate smoothly to the idle position, the bike should be taken to a Victory dealer for adjustment.

### **WARNING**

A throttle that does not return freely presents a serious hazard. Do not ride a bike with a throttle that does not work perfectly! Doing so can lead to a serious crash.

## Engine Idle

Before each ride, the operator should inspect engine idle speed. After the engine has reached operating temperature the idle speed should be at 950 rpm  $\pm$  50. If the idle speed is incorrect, the bike should be taken to a Victory dealer for adjustment.

## Lights, Signals and Switches

Check the headlight, front position lights, turn signals, taillight, brake light, speedometer lights and all the indicator lights to make sure they are in working condition.

Check the operation of the horn switch, start switch, engine stop switch and main switch.

# PRE-RIDE INSPECTION

## Fittings and Fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Take the motorcycle to a Victory dealer or refer to the Service Manual for correct tightening torque.

## Tires

To ensure maximum performance, long service and safe operation, do the following:

### Tire Air Pressure

Tire air pressure should be checked and adjusted before operating the motorcycle and also when a passenger or luggage is carried. Refer to the tire pressure chart below to determine which tire pressures should be used for different loads and riding conditions.



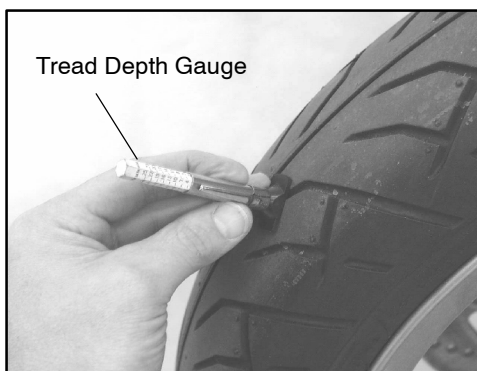
# PRE-RIDE INSPECTION

## Tire Inspection

### **WARNING**

It is dangerous to ride with a worn out tire. When a tire has less than  $1/16''$  (1.6 mm) of tread, have a Victory dealer replace the tire immediately. Brakes, tires, and related wheel parts replacement should be performed by a Victory Service Technician.

A tire inspection should be performed before operating the motorcycle. If a tire tread shows crosswise lines (minimum thread depth), if the tire has a foreign object, or if the sidewall is cracked, contact a Victory dealer and have the tire replaced. Using a tread depth gauge (1), measure the tread of the tires. You should have at least  $2/32''$  (1.6 mm) of tread.



**NOTE:** Most Victory motorcycles are equipped with tubeless tires and cast wheels. The Deluxe model has laced wheels which require tubed tires.

# PRE-RIDE INSPECTION

<b>TIRE PRESSURE CHART</b>		
<b>Cold Tire Pressures SportCruiser™</b>		
Up to 200 lbs (91 kg)	Front	36 psi (250 kpa)
	Rear	38 psi (265 kpa)
Up to maximum weight capacity of 474 lbs (215 kg)	Front	36 psi (250 kpa)
	Rear	42 psi (290 kpa)
<b>Cold Tire Pressures Standard Cruiser</b>		
Up to 200 lbs (91 kg)	Front	34 psi (235 kpa)
	Rear	36 psi (250 kpa)
Up to maximum weight capacity of 477 lbs (216 kg)	Front	34 psi (235 kpa)
	Rear	41 psi (282 kpa)
<b>Cold Tire Pressures Deluxe Cruiser</b>		
Up to 200 lbs (91 kg)	Front	34 psi (235 kpa)
	Rear	36 psi (250 kpa)
Up to maximum weight capacity of 447 lbs (202 kg)	Front	34 psi (235 kpa)
	Rear	41 psi (282 kpa)

# OPERATION

## Safety Precautions

- ✓ This motorcycle was produced with the designated tires as original equipment. The testing that was done to ensure stability and superior handling included these tires. The use of other tires may cause instability. Failure to use Victory original equipment tires could result in poor motorcycle stability and handling, which can lead to a crash and subsequent serious injury or death. Use only the recommended tire at the recommended tire pressure.
- ✓ The use of tire valves and valve cores other than genuine Victory parts could cause tire deflation during extended driving. Always use genuine Victory parts or their equivalent for replacement.
- ✓ Be certain to tighten the valve caps securely. Not doing so may lead to air pressure leakage during extended driving.
- ✓ Never start your engine or let it run for any length of time in an enclosed area. The exhaust fumes are poisonous and can cause loss of consciousness and death within a short time. Always operate your motorcycle in an area with adequate ventilation.
- ✓ The motorcycle must not be ridden when the sidestand is down.
- ✓ Be certain vehicle stand is up before riding the motorcycle. If not, it could contact the road surface causing a momentary disturbance which could cause loss of vehicle control.

## Starting and Warming up a Cold Engine

This motorcycle is equipped with a starter interlock system. The engine can be started only under the following conditions:

- The transmission is in neutral.
- The transmission is in gear and the clutch disengaged

If the fuel indicator light comes on, check the fuel level and, if necessary, add fuel.

### Starting Procedure

1. Shift the transmission into neutral.

**NOTE:** When the transmission is in neutral, the neutral indicator light should be on. If the light does not come on, ask a Victory dealer to inspect it.

2. Engage the fast idle lever by pulling the lever towards the rider until the lever stops.
3. Turn the key to “ON” and ensure that the stop switch is in the “RUN” position.
4. Start the engine by pushing the start switch.
5. The fast idle lever may be returned to the rest position as soon as the engine has warmed sufficiently so it will idle smoothly.

**NOTE:** If the engine fails to start, release the start switch, wait a few seconds, then try again. Each attempt should be as short as possible to preserve the battery. Do not crank the engine more than 10 seconds on any one attempt.

**NOTE:** The oil pressure light should come on when the start switch is pushed and should go off when the start switch is released. If the oil pressure light flickers or remains on, immediately stop the engine and check the engine oil level and, if necessary, add oil. Also check for oil leakage. If the oil pressure light still stays on, consult your Victory dealer.

# OPERATION

## Engine Break-in

There no more important time in the life of your motorcycle than the period between zero and 500 miles (830 km). Because the engine is brand new, you must not put an excessive load on it for the first 500 miles (830 km). The various parts in the engine wear and polish themselves to the correct operating clearances.

During engine break-in, avoid prolonged full throttle operation, or any condition which might result in excessive heating of the engine. Read the following information and follow each step in the break-in of your vehicle.

GUIDELINES FOR ENGINE BREAK-IN		
Miles	Throttle Position	Notes
0-90 miles	0-1/3 throttle position	Avoid prolonged operation above 1/3 throttle. Vary the speed of the motorcycle. Do not operate the machine at one set throttle position.
90-300 miles	0-1/2 throttle position	Avoid prolonged operation above 1/2 throttle. Follow the other guidelines in the step above.
300-500 miles	0-3/4 throttle position	Avoid cruising speeds above 3/4 throttle.
<b><u>500 miles</u></b>	<b><i>Replace the engine oil and engine oil filter.</i></b> See pages 50 and 51 for more information. Have the 500 mile service performed.	
500 miles and beyond	Avoid prolonged full-throttle operation. Vary the engine speed occasionally. Follow the pre-ride inspection (pg 30) and the periodic maintenance chart on pages 46 and 47.	

**NOTE:** If any operating trouble should occur during the break-in period, consult a Victory dealer immediately.



### Shifting

The transmission lets you control the amount of power you have available at a given speed for starting, accelerating, climbing hills, etc. The use of the shift pedal is shown in the illustration on page 25.

## CAUTION

Inadequate lubrication may damage the transmission.

Do not coast for long periods with the engine off, and do not tow the motorcycle a long distance. Even with gears in neutral, the transmission is only properly lubricated when the engine is running.

## CAUTION

Always use the clutch when changing gears. The engine, transmission, and driveline are not designed to withstand the shock of forced shifting and can be damaged by shifting without using the clutch.

# OPERATION

## To Start Riding

1. Pull the clutch lever to disengage the clutch.
2. Shift into first gear. The neutral indicator light should go out.
3. Open the throttle gradually, and at the same time, release the clutch lever slowly.
4. At the recommended shift point as shown in the table on page 44, close the throttle, and at the same time, quickly pull in the clutch lever.
5. Smartly lift the gear lever with your left toe to shift into second gear. **NOTE:** Be careful not to shift into neutral.
6. Open the throttle part way and gradually release the clutch lever.
7. Follow the same procedure when shifting to the next higher gear. Always shift gears at or below the recommended speeds as shown in the table on page 44.

## Deceleration

1. Apply both the front and rear brakes at the same time to slow the motorcycle.
2. When the motorcycle reaches 10 mi/hr (16 km/hr), shift into first gear. Anytime the engine is about to stall or runs very roughly, pull the clutch and use the brakes to stop.

## Recommended Acceleration Shift Points

UP-SHIFT	Mi/Hr	Km/Hr
1st to 2nd	20	32
2nd to 3rd	35	55
3rd to 4th	45	72
4th to 5th	55	88

## Recommended Deceleration Shift Points

DOWN-SHIFT	Mi/Hr	Km/Hr
5th to 4th	40	64
4th to 3rd	30	48
3rd to 2nd	20	32
2nd to 1st	10	16

## Parking

When parking the motorcycle, stop the engine and remove the main switch key. To prevent your motorcycle from tipping over, do not park your motorcycle on a slope or on soft ground.

### **WARNING**

The engine, muffler, and exhaust components are hot after operation. To prevent serious burns, allow to cool before touching.

# MAINTENANCE

## Periodic Maintenance

Periodic inspection, adjustment, and lubrication will keep your motorcycle in the safest and most efficient condition possible. Some important points of motorcycle inspection, adjustment, and lubrication are explained in the following pages.

### **WARNING**

If you are not experienced in motorcycle service, this work should be done by a qualified Victory dealer.

Accidents causing serious injury or death can result if service is performed by an inexperienced mechanic.

Proper periodic maintenance of your motorcycle is important in order to enjoy long, pleasurable service. Especially important are the maintenance services related to emissions control.

These controls not only function to ensure cleaner air but are also vital to proper engine operation and maximum performance. In the following tables of periodic maintenance, the services related to emissions control are grouped separately.

These services require specialized data, knowledge and equipment. Victory dealers are trained and equipped to perform these particular services.

The limited information concerning periodic maintenance is intended to assist you in completing some of your own preventive maintenance and minor repairs.

### **WARNING**

Modifications to this motorcycle not approved by Victory may cause loss of performance, excessive emissions, reduce reliability, and make the machine unsafe for use. Consult a Victory dealer before making any changes.

# MAINTENANCE

## Periodic Maintenance Chart

ITEM	PROCEDURE I = Inspect L = Lubricate R = Replace T = Torque	Initial	Odometer readings				
		500 miles or 1 month	2,500 miles or 6 months	5,000 miles or 12 months	7,500 miles or 18 months	10,000 miles or 24 months	12,500 miles or 30 months
Valve Clearance		Not necessary. Your Victory motorcycle engine utilizes hydraulic valve lash adjusters.					
Spark Plug	Check condition Adjust gap and clean Replace every 30,000 miles	I					
✓ Exhaust System	Check for leakage Retighten if necessary Replace gaskets if necessary	T	I	I	T	I	I
✓ Battery	Inspect terminal condition and tightness. Check open cell voltage	I	I	I	I	I	I
✓ Throttle Operation	Check for smooth operation. Throttle should return to the idle position	I	I	I	I	I	I
✓ Clutch Cable Freeplay	Adjust cable free play and inspect for smooth operation	I	I	I	I	I	I
Engine Oil and Oil Filter	Replace	R	R	R	R	R	R
Air Filter *	Inspect Replace if necessary	I	I	R	I	R	I
✓ Compression Pressure	Inspect engine compression and record	I	I	I	I	I	I
Brake System	Replace brake fluid every 30,000 miles or 24 months.; Check and replace pads if necessary; inspect operation of brake light switches.	I	I	I	I	I	I
✓ Drive Belt	Adjust tension and alignment; inspect for damage and wear; Replace every 30,000 miles	I	I	I	I	I	I
Headlight Aim	Inspect and adjust as necessary	I	I	I	I	I	I
Control Cables	Apply cable lube	I	L	L	L	L	L
✓ Rear Swing Arm Pivot	Check bearing assembly for looseness.	I	I	I	I	I	I
Sidestand pivot	Check operation and apply light weight grease	I	L	L	L	L	L
✓ Front Fork	Check operation and for leakage; Replace fork fluid every 15000 miles or 24 months	I	I	I	I	R	I

# MAINTENANCE

## Periodic Maintenance Chart

	ITEM	PROCEDURE I = Inspect L = Lubri- cate R = Replace T = Torque	Initial	Odometer readings				
✓	Rear Shock	Check operation and for leakage. Complete shock service every 15,000 miles	I	I	I	I	I	L
✓	Steering Bearings	Check bearing assembly for looseness and adjust as necessary Repack every 15,000 miles	I	I	I	I	I	I
✓	Wheel Bearings	Check bearings for smooth operation	I	I	I	I	I	I
✓	Tires	Inspect for wear and damage. Adjust tire pressure	I	I	I	I	I	I
	Nuts, Bolts, fasteners	Inspect fastener torque, - as necessary	I	I	I	I	I	I
✓	Crankcase Ventilation System	Check ventilation hose for cracks or damage Replace if necessary		I	I	I	I	I
✓	Fuel Lines	Check fuel hoses for cracks or damage Replace if necessary		I	I	I	I	I
✓	Brake / Clutch lever pivot shaft	Apply light weight grease		L	L	L	L	L
✓	Brake pedal / Shift pedal shaft	Apply light weight grease		L	L	L	L	L
✓	Rear Shock Pivot	Apply light weight grease				L		
✓	Evaporative emission control system (for California only)	Check control system for damage. Replace if necessary					I	
✓	Fuel Filters	Replace every 17,500 miles						R (17,500 Miles)

✓ - requires special tools, data and technical skills for servicing. Take the motorcycle to a Victory dealer or refer to the Victory service manual when servicing these items.

\* The air filter needs more frequent service if you are riding in unusually wet or dusty conditions.

**NOTE:** For odometer readings or time periods higher than 12,500 miles or 30 months, repeat the same maintenance as listed in the table starting at the 2,500 mile interval.

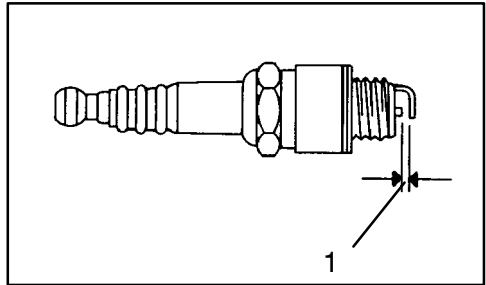
## Spark Plug Inspection

Specified Spark Plug	RA8GHC Champion
Spark Plug Gap (1)	0.040" (1.0 mm)
Tightening Torque	12 - 14 ft. lbs.

### CAUTION

Do not over-tighten or under-tighten the spark plug. Looseness can cause pre-ignition because heat is not dissipated through the threads. Excessive tightness can damage the threads of both the cylinder head and spark plug.

The condition of the spark plugs can often times indicate abnormal engine conditions. They are important engine components and are easy to check. Refer to page 17 for spark plug location.



You should periodically remove and inspect the spark plugs because heat and deposits will cause any spark plug to erode away its electrodes. If electrode erosion is excessive or if foreign deposits are excessive, you should replace the spark plug with the specified spark plug.

Normally, both of the spark plugs from the same engine should have the same color on the spark plugs center insulator. The ideal color is a medium tan color for a motorcycle being operated normally. If one or more spark plugs show a distinctive different color it could be an indication of an engine problem. Do not attempt to diagnose such problems yourself. Have your Victory dealer determine what, if anything, is wrong with your motorcycle.

## MAINTENANCE

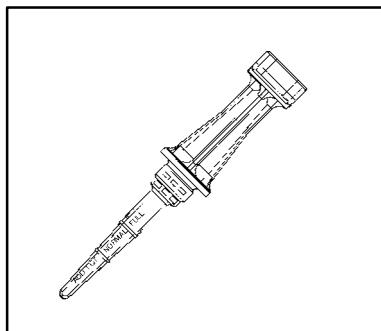
Always measure the electrode gap (1) with a wire type thickness gauge before installing new or used spark plugs in your engine. If necessary, adjust the electrode gap to the specifications found on page 48.

Before installing the spark plugs, clean the gasket surface. Ensure that the spark plug's threads are clean and undamaged. It is a good idea to put a drop of clean engine oil or a very small amount of anti-seize compound on the spark plug's threads before installation. Tighten the spark plugs to the specified torque value which is found on page 48.

### Engine Oil Level

Use the following procedure to check the engine oil level.

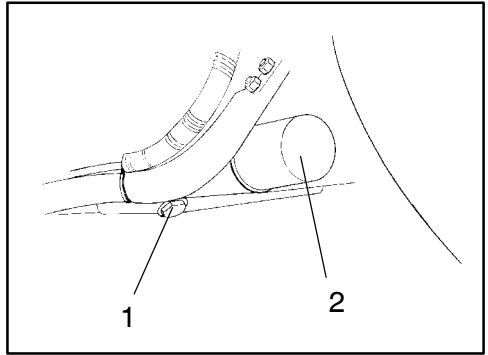
1. Warm up the machine for several minutes.
2. Stop the engine and wait 3-5 minutes.
3. Remove the dipstick, clean the oil off, and replace the dipstick.
4. Place machine on a level area and hold it in an upright position.
5. Check the engine oil level with the motorcycle held upright, 3-5 minutes after having been run with the dipstick screwed in and seated.
6. Remove the dipstick and read the oil level. The oil level should be between the maximum and minimum marks. If the level is low, add oil to raise it to the maximum mark.



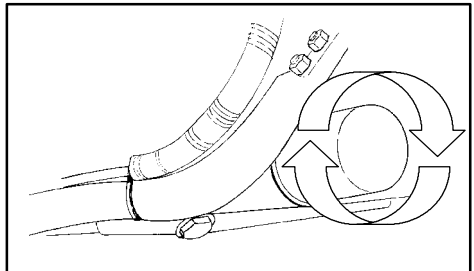


## Engine Oil and Oil Filter Replacement

An oil filter wrench is required when replacing the oil filter. Take your machine to a Victory dealer or refer to the service manual when replacing the oil filter.



1. Warm up the engine for several minutes.
2. Stop the engine. Securely support the machine on its sidestand.
3. Place an oil pan under the engine and remove the dipstick.
4. Remove the drain plug (1) and drain the oil.
5. Remove the oil filter (2).
6. Reinstall the drain plug with a new o-ring (if the used o-ring is damaged) and tighten it to 25 ft. lbs.
7. Apply a light coat of engine oil to the O-ring of the new oil filter. Make sure the O-ring is seated properly.
8. Install the new oil filter. Tighten the filter one full turn after O-ring contacts engine case.
9. Fill the engine with 6 quarts of oil .
10. Install the dipstick and check oil level.



## MAINTENANCE

### CAUTION

Do not put any chemical additives in the oil. Victory's motorcycle oil has been specially designed for this application and any additional additives are not necessary and have not been tested by Victory.

Start the engine and warm it up for several minutes. While warming up, check for oil leaks. If any leaks are found, stop the engine immediately and determine the source of the problem before starting the engine again. Consult your Victory dealer if you cannot determine or repair the source of the problem.

After the engine is started, the oil indicator light should go off.

**NOTE:** If the indicator light flickers or remains on, immediately stop the engine and take your motorcycle to a Victory dealer.

#### TIGHTENING TORQUE

Drain Plug	25 ft. lbs. (3.5 kg-m)
Oil Filter	1 full turn after O-ring contacts the sealing surface

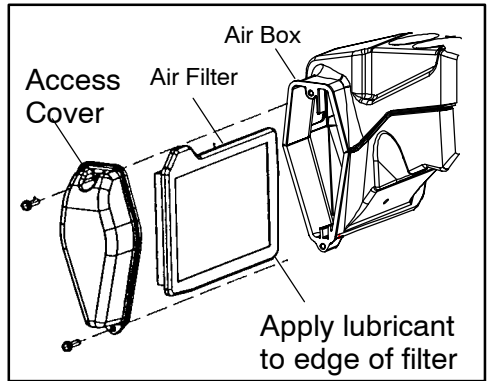
#### OIL QUANTITY

Oil and Filter Change	6 quarts (6.7 liters)
-----------------------	-----------------------

## Air Filter

Inspect the air filter on a regular basis. Inspect more often if riding in unusually wet or dusty conditions. Replace filter if necessary. Refer to page 17 for filter location.

1. To remove the air filter access cover, remove the two screws securing the cover to the unit.
2. Slide the “panel type” air filter out to inspect.
3. Replace filter.



**NOTE:** If replacing with a new filter, it may be helpful to apply a small amount of lubrication to the edge of the filter to allow it to slide in more easily.

4. Reinstall the access cover. Do not overtighten screws.

# MAINTENANCE

## Brake System

### **WARNING**

Operating your motorcycle with inadequate or faulty brakes could cause an accident, leading to serious injury or death.

A soft or spongy feeling in the brake lever or pedal can indicate the presence of air in the brake system. This air must be removed by bleeding the brake system before the motorcycle is operated. Air in the system will cause greatly diminished braking capability and can result in loss of control and an accident. Have a Victory dealer inspect and bleed the brake system if necessary.

### Brake Pedal Freeplay Adjustment

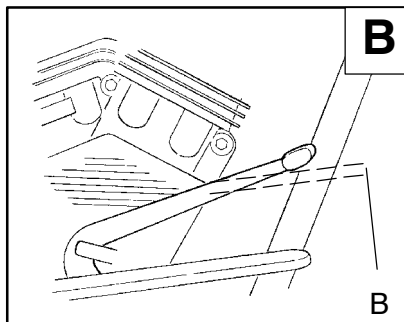
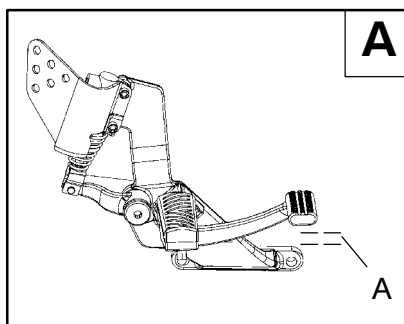
1. Measure pedal freeplay travel as illustrated.

**A** - SportCruiser™ The freeplay measurement should be 3 - 5 mm (A) when light downward pressure is applied to the pedal.

**B** - Standard and Deluxe Cruisers the freeplay measurement should be 5-8 mm (B) when light downward pressure is applied to the pedal.

**NOTE:** No movement of the master cylinder piston should occur.

2. If the pedal freeplay is outside of specification, loosen the locking nuts and turn the adjustment rod in or out as necessary to achieve the correct brake pedal freeplay.
3. Tighten the lock nut and verify that the rear wheel rotates freely without drag or binding.



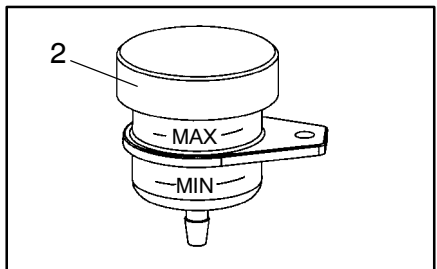
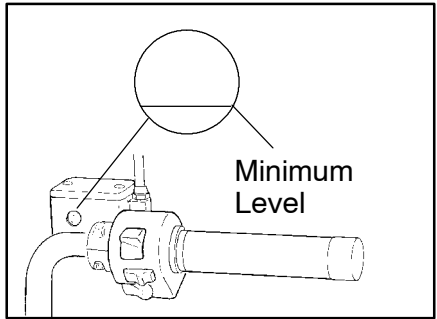
## Fluid Level Inspection

### **WARNING**

Low brake fluid levels may let air enter the brake system, possibly creating poor or non-existent braking. Before riding, check brake fluid level and add if necessary.

Refer to page 18 for location of rear brake reservoir (2). Observe the following precautions:

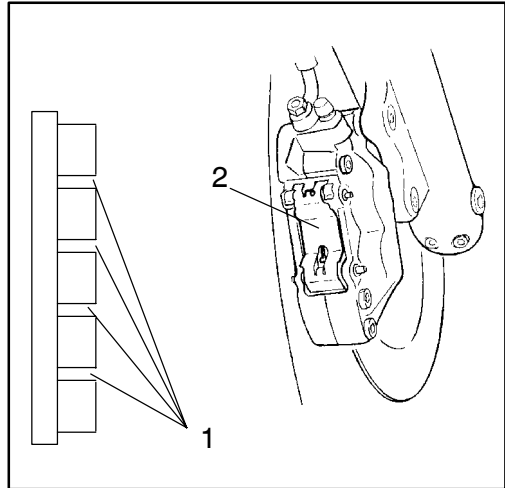
- When checking the level of the brake fluids, make sure the master cylinder is level. It may be necessary to move the handlebars or stand the motorcycle upright.
- Use only DOT 4. Otherwise, leakage or poor brake performance may result.
- Refill with the same type brake fluid. Mixing different types of fluids may result in detrimental chemical reactions and lead to loss of braking performance.
- Do not let water enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in poor braking.
- Brake fluid attacks many painted surfaces and plastic parts. Always clean up spilled fluid immediately with large quantities of water and mild detergent.
- A lowering of the brake fluid level is normal as the brake pads wear. If you notice a constant or sudden lowering of the brake fluid level, have your Victory dealer inspect your machine for the cause of the problem.



# MAINTENANCE

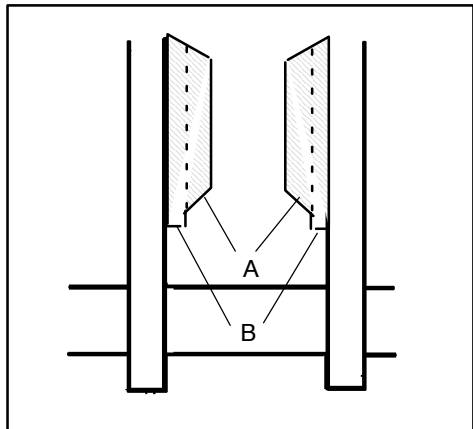
## Front Brake Pad Inspection

Three wear indicator grooves (1) are provided on each front brake pad. These indicators allow for a visual indication of brake pad wear without disassembly of the caliper (2). Inspect the grooves. If they have almost disappeared, have a Victory dealer replace the brake pads.



## Rear Brake Pad Inspection

The rear brake pads do not have wear indicator grooves but rely on chamfers (A) for wear indication. When the pads are worn to the point that the chamfer no longer exists, on the end with the wear indicator (B), the brake pads must be replaced.



## Brake Pad Replacement

When brake pads need to be replaced, take your motorcycle to a Victory dealer.

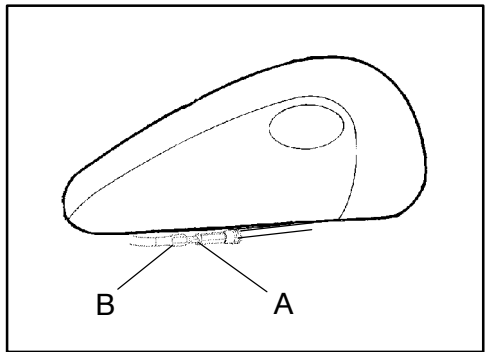
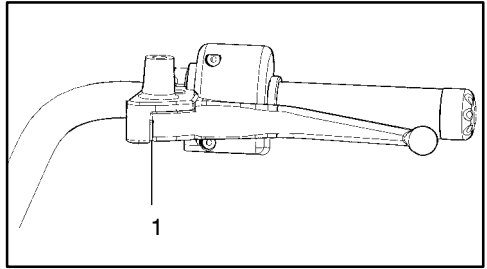
## Clutch Inspection

Make certain the clutch is working properly.

Operate the clutch a few times and check for smooth operation and proper free-play (.080"/2mm) (1).

If the free-play is incorrect, loosen the lock nut (A) and turn the adjustment sleeve (B) until free-play is correct. Tighten the lock nut after you are finished.

If the operation of the clutch cable is not smooth, ask your Victory dealer to inspect the operation and determine if any repair or lubrication is needed.



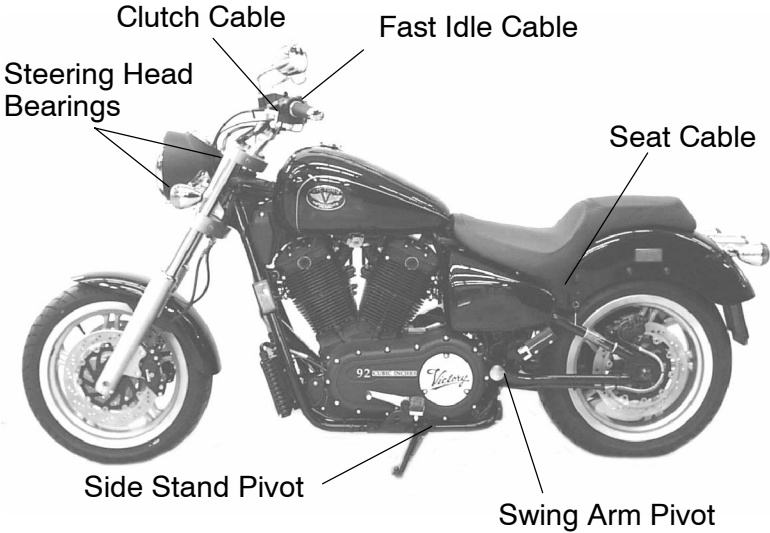
**NOTE:** Starter interlock is dependent on the clutch lever freeplay being set correctly to assure activation of the clutch safety switch.

# MAINTENANCE

## Lubrication Points - SportCruiser™ Shown

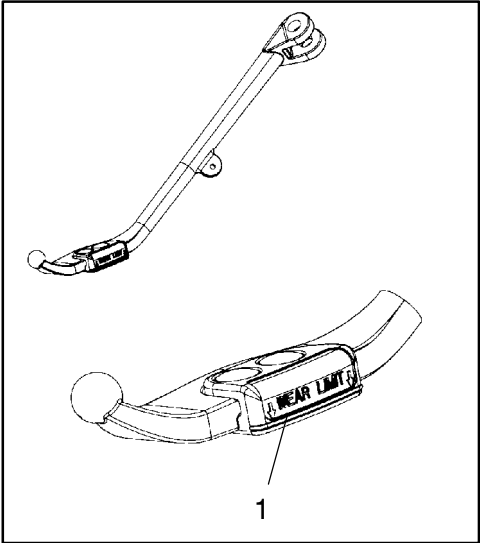
**NOTE:** Steering head bearings should only be lubricated by a Victory Technician. The lubrication points for the Standard and Deluxe cruisers are in the same location as the SportCruiser™.

**NOTE:** Pure Moly Lube Polaris starter grease should be used for cable lube (PN 2871460).





## Sidestand Pivot

1. Support the motorcycle in an upright position.
  2. Inspect the sidestand spring for damage or loss of tension.
  3. Inspect the sidestand for smooth movement. Lubricate if necessary.
  4. Inspect the sidestand pivot bolt nut for proper torque (36 ft. lbs. - 5.0 kg-m)).
- 
5. Make sure that the sidestand is not bent. If it is, it must be replaced. Do not attempt to straighten the sidestand.
  6. Inspect the sidestand's rubber pad for wear. Be sure the pad is secured properly in place. Replace the pad when it is worn beyond the wear mark (1).

# MAINTENANCE

## Front Fork Inspection

### CAUTION

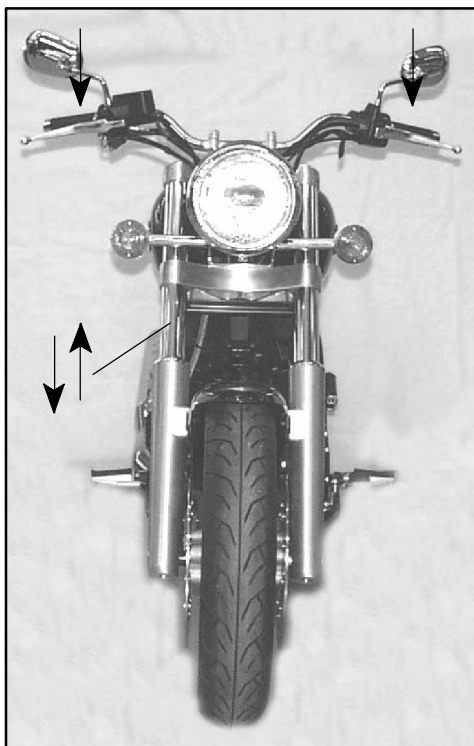
Securely support the motorcycle so it does not fall.

### Oil Leak Check

Check for oil leakage. If any leakage is detected, take the machine to a Victory dealer for repairs.

### Operation Check

Place the machine on a level place. Hold the machine in an upright position and apply the front brake. Push down hard on the handlebars several times to determine if the forks operate smoothly. Check for loose steering or abnormal noise. Check tightness of all fasteners.



### CAUTION

If unsmooth movement, damage, looseness or abnormal noise is detected in front fork, take your motorcycle to a Victory dealer for inspection.

### **WARNING**

Do not operate a motorcycle with faulty suspension. Loose, damaged, worn or improperly adjusted suspension parts impair vehicle stability and control.

### **Rear Wheel Alignment Inspection & Adjustment**

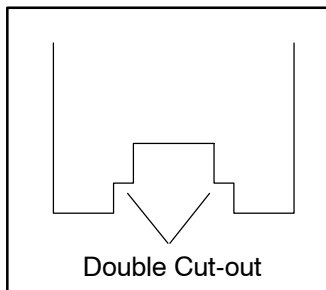
It is recommended that your Victory dealer perform all rear wheel alignment inspections and adjustments.

# MAINTENANCE

## Fuse Replacement

The fuses are located on the right side of the motorcycle under the right body side cover.

1. To access the fuses, remove seat.
2. Remove the right-hand side cover by pulling out on the bottom of the side cover and lifting up.
3. Push back the tabs on each side of the fuse box cover and lift cover off. **NOTE:** the cover must be installed with the double cut-out facing rearward.



Fuse Size for Application	
Specified Fuse	Size
Main Fuse "A"	10 amp "Blade" type fuse
Main Fuse "B"	20 amp "Blade" type fuse
All other fuses	10 amp "Blade" type fuses

If any fuse is blown, turn off the main switch to determine which fuse is blown. Install a new fuse of the specified amperage. Turn on the switches and see if the system operates correctly. If the fuse blows again, see your Victory dealer.

## CAUTION

Do not use fuses of a higher amperage rating than what is specified.

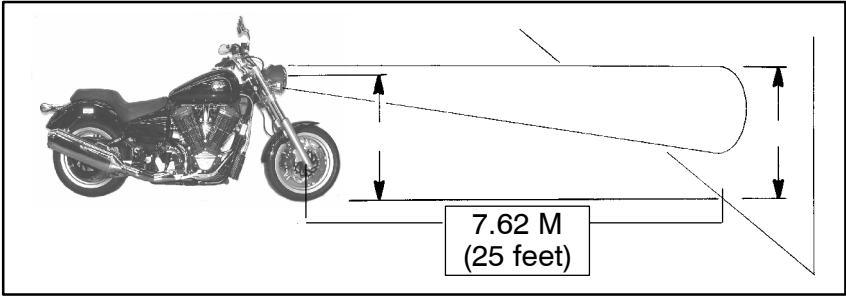
If the correctly rated fuse continues to blow, something is wrong and needs to be corrected. Substituting a higher amperage fuse can lead to extensive electrical system damage and possibly a fire.

### Fuse Box Diagram

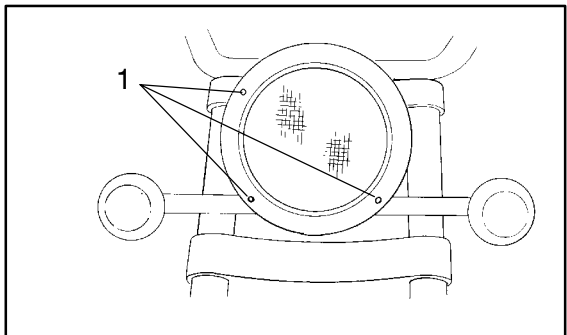
IGNITION RELAY		HEADLAMP RELAY		ECM RELAY
TO POWER CORD				
<b>10A</b> Brake	<b>20A</b> Horn	<b>10A</b>		FUEL PUMP RELAY
Main Ignition	Headlamp	Ignition		
Diode Starter ←	<b>20A</b> Flasher ECM	<b>10A</b> Fuel Pump		

# MAINTENANCE

## Headlight Adjustment



1. First inspect tire pressures. Correct if necessary.
2. Select a level area with low lighting and enough room to place the motorcycle's front tire 25 feet from the wall or temporary screen.
3. Measure from the center of the headlight to the floor. Draw a horizontal line on the wall or screen that equals this measurement.
4. Have someone who is approximately the same weight as the primary rider sit on the motorcycle.
5. Place the motorcycle upright with the handlebars centered and turn on the high beam of the headlight.
6. The top of the light beam must be even or below the horizontal line on the wall or screen.
7. The light beam should project evenly to the right and left of the motorcycle's center line.
8. Remove the headlamp bezel ring.
9. If headlight adjustment is necessary, turn the headlight aiming screws (1) in or out as needed.



## Drivebelt Inspection

**NOTE:** It is recommended that your Victory dealer inspect the drive belt annually.

1. Periodically inspect the drive belt for cuts, excessive wear, foreign substance (oil, etc.), missing teeth, delamination of the outer belt covering, or any unusual damage.
2. If any damage is found, the belt should be replaced. See Victory dealer if your belt needs to be replaced.

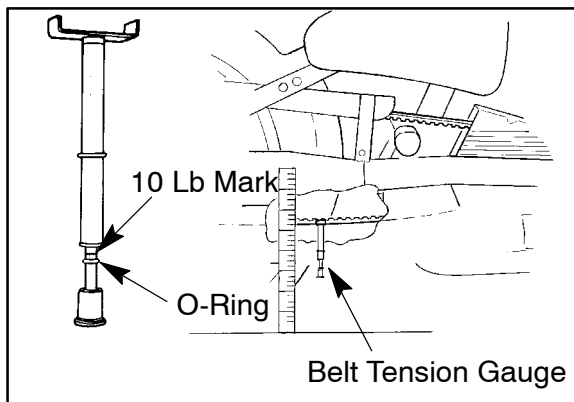
## Drivebelt Sprockets Inspection

1. Inspect sprockets for wear or damage from foreign material or an accident. See your Victory dealer for replacement if damage is found.

# MAINTENANCE

## Drive Belt Tension Inspection

1. Secure the motorcycle in an upright position.
2. Place a tape measure or ruler next to the belt in the location shown.
3. Place the O-ring on the 10 lb. mark of the belt tension gauge.



4. Determine the center of the belt and place the belt tension gauge squarely against the belt.

## CAUTION

The belt tension gauge must be kept at a 90° angle to the belt in order to obtain an accurate measurement. Located at the “V” in the lower belt guard.

## ⚠ CAUTION

The engine and exhaust system become very hot during operation and remains hot for a period of time after the engine is shut off. Wear insulated protection for hands and arms or wait until the engine and exhaust system have cooled before working on the machine.

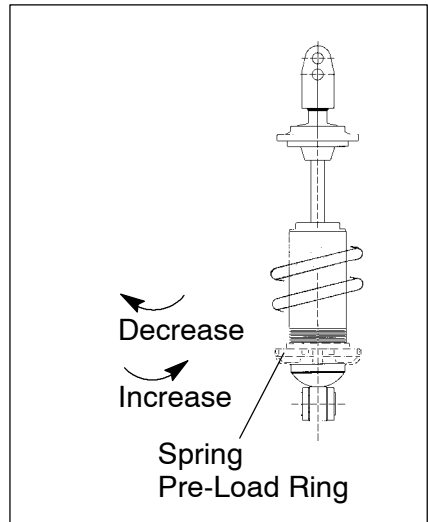
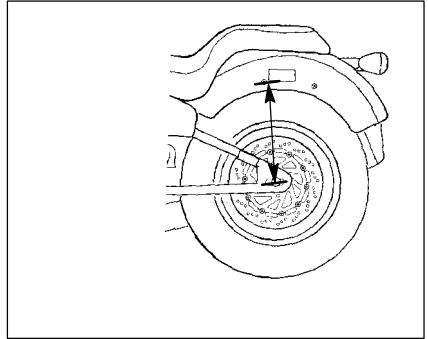
5. Push up on the belt tension tool. When the O-ring just touches the tool body, belt deflection should be 8mm (0.31”).
6. If the belt moved more than 8mm, with 10 lbs. of force, the belt must be tightened. If the belt moved less than 8mm, with 10 lbs. of force, the belt must be loosened.



## Spring Pre-Load Adjustment

The rear shock pre-load adjustment should be set to insure the motorcycle has the correct amount of suspension travel and ground clearance. **NOTE:** Two or three people will be required to make this adjustment.

1. Remove the motorcycle from its sidestand and balance it on the two wheels. Compress the rear suspension a couple of times by pushing down on the seat and releasing. The suspension should move freely without binding. The suspension should move freely without binding.
2. Measure from the center of the rear axle to the center fender attachment bolt. Refer to illustration.
3. Load the motorcycle as it is intended to be ridden. This could include rider, passenger, riding gear, and any cargo or accessories.
4. Again with the bike balanced on the two wheels, compress the rear suspension a couple of times as in step 1. Make certain the suspension moves freely without binding. Measure again from the center of the rear axle to the center fender attachment bolt.



# MAINTENANCE

## Spring Pre-Load Adjustment (cont.)

5. Subtract the second measurement from the first. The resulting number is called “sag,” and should be between 0.5 and 1.0 inches. If it's not, the pre-load must be adjusted.
6. After adjusting your spring pre-load ring, repeat the measurement procedure until the sag is between 0.5 to 1.0 inches. If the proper sag cannot be obtained, the motorcycle may be overloaded. Consult your Victory dealer for additional assistance.

## Ride Height Adjustment - SportCruiser™ Only

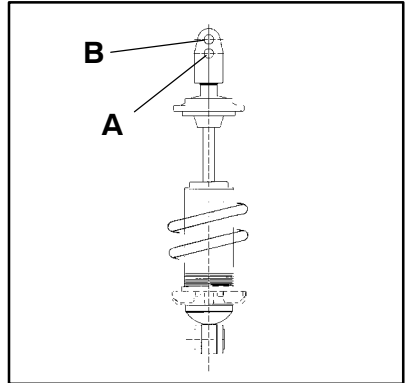
**NOTE:** If you are not familiar with safe service and adjustment procedures, have this adjustment performed by an authorized Victory dealer.

A - Production Clevis Setting

B - Alternate Clevis Setting

To raise the ride height, use the following procedure (SportCruiser™ shown).

1. With the motorcycle in an upright position, secure the front wheel.
2. Remove seat (see page 28).
3. Using care to properly support the frame, place a floor jack beneath the engine and elevate the rear of the motorcycle slightly (1/2"-1"). This will remove tension from the front shock mounting bolt. Remove nut and bolt.
4. Continue raising the rear of the bike until mounting position is aligned with upper clevis mounting position. Reinstall the bolt and nut. Torque to 45 ft. lbs. (62 N-m).
5. Lower the motorcycle and reinstall seat.

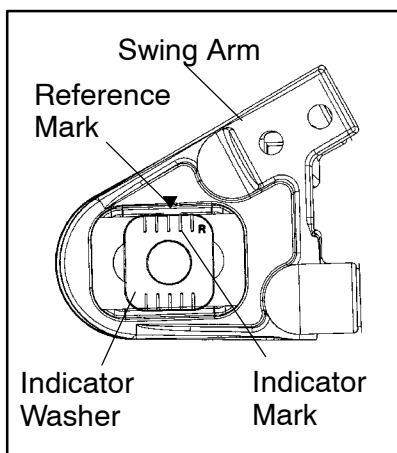


# MAINTENANCE

## Rear Wheel Alignment Inspection & Adjustment

**NOTE:** The swingarm has an indicator washer with reference marks to be used for positioning the rear wheel. Before removing the wheel, note the relationship of the reference marks on the washer and swingarm. When reinstalling the wheel, reposition it to this location.

1. After replacing the wheel and ensuring that the wheel alignment is correct as noted above, tighten the rear axle nut to 65 ft. lbs. and install a new cotter key.
2. Tighten the wheel adjuster bolts lightly.
3. Tighten the wheel adjuster lock nuts.
4. Pump the rear brake pedal several times until the pedal is firm.



## **WARNING**

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing. Antidote:

**External:** Flush with water.

**Internal:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

**Eyes:** Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries. **KEEP CHILDREN AWAY FROM BATTERY.**

## **Battery**

This motorcycle is equipped with a maintenance free battery and is located under the left frame cover. It is not necessary to check the electrolyte or add distilled water to the battery. If the battery discharges, see your Victory dealer.

## **CAUTION**

Whenever removing the battery, disconnect the negative (black) cable first. When reinstalling the battery, connect the negative (black) cable last.

Do not remove the battery cables while the engine is running. Doing so may damage the Electronic Control Unit (ECU).

Take great care not to reverse the battery leads when installing the battery. Reverse power applied to the ECU will damage it instantly.

# **BATTERY**

## **Battery Connections**

Battery terminals and connections should be kept free of corrosion.

If cleaning is necessary, remove the corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean rags. Coat the terminals with dielectric grease or petroleum jelly.

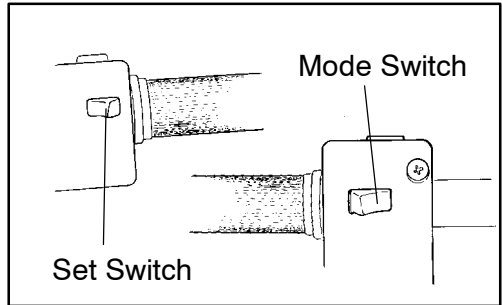
## **Battery Storage**

When the motorcycle is not used for periods of one month or longer, remove the battery and store it in a cool, dry area. The battery should be recharged monthly using a 12 volt battery charger with a maximum charge rate of 2 amp-hr.

# MULTI-FUNCTION DISPLAY

## MFD Functions

1. Odometer
2. Trip Odometer
3. Clock
4. Backlight dimming
5. Hi-Beam Dimming
6. Fuel Level
7. Voltmeter
8. Check Engine



**MODE SWITCH** - Toggles all Multi-LCD display functions except “Check Engine.” The indicator scrolls from left to right, displaying selection.

**SET SWITCH** - Function varies with selected function mode. Used to set the clock, to select English or metric while in Odometer mode and resets the trip odometer while in trip mode.

**ODOMETER** - Default function on LCD when starting the machine. It accumulates the distance of the vehicle. The global numeric system can be toggled between English and metric by pressing the SET button for 3 seconds while in this function. Pressing the mode button will change to the next LCD function.

**TRIP ODOMETER** - This function also accumulates and stores distance but can be reset to zero by pressing the SET button for 3 seconds while in this mode. TRIP MI or TRIP KM indicators are on when in this mode (depending on the current numeric system of choice). Pressing once the MODE button will change to the next LCD function.

# MULTI-FUNCTION DISPLAY

## MFD Functions (cont.)

**CLOCK** - You must be in CLOCK mode to set the time. To set the time, hold SET key for 3 seconds (hours digits start flashing), press SET to select the hour and MODE to enter the set hour; the first digit of minutes will begin to flash. press SET to select the number and MODE to enter it; continue with this procedure for the final digit. After the last digit is entered, the display will return to normal operational mode (colon flashing). After the clock is set, pressing the MODE button will change to the next LCD function.

**BACKLIGHT DIMMING** - the intensity of the backlight of the module can be changed to one of 6 levels by pressing the SET button. The LCD display will show in bars the proportional part of the dimming. In this mode, the DIM indicator is on and pressing the MODE button once will change to the next LCD function.

**HIGH BEAM INDICATOR DIMMING** - The intensity of the high beam indicator can be set to one of 4 levels by pressing the SET button. The LCD display will show HB followed by bars, indicating the proportional part of the dimming. In this mode, the DIM indicator is still on and pressing the MODE button once will change to the next LCD function.

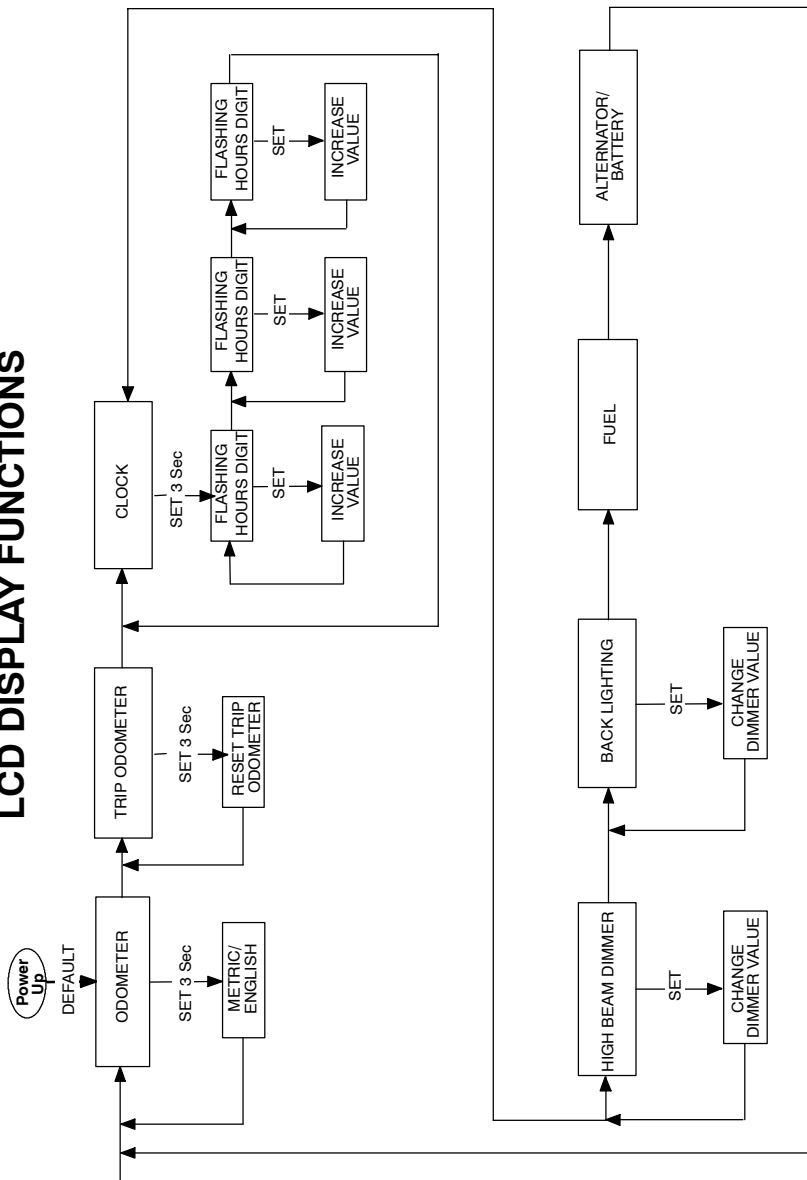
**FUEL** - Fuel of the vehicle will be shown on the LCD display in gallons or liters according to the current numeric system of the module. The range goes from LOW (0.6 gals.) to FULL (4-5 gals.). When low, the fuel icon flashes. In this function all indicators will be off. Pressing the MODE button once will change to the next LCD function.

**VOLTMETER** - The voltage of the battery will be shown on the LCD display. (i.e. Alt 12.3). In this function, all indicators will be off, Pressing the MODE button once will change back to the first LCD function.

**CHECK ENGINE** - In this function, the microcontroller is checking the Check Engine input line; the LCD will show Check Engine every time this line turns low. This screen will be on for a period of two seconds every 5 seconds as long as the Ch Engine line remains low.



## LCD DISPLAY FUNCTIONS



# **TROUBLESHOOTING**

## **Troubleshooting**

Victory motorcycles receive a rigorous inspection before shipment from the factory. However, trouble may occur during operation.

Any problem in the fuel, combustion, or ignition systems can cause hard starting and loss of power. If your motorcycle requires repair, take it to your Victory dealer.

The skilled technicians at a Victory dealership have the tools, experience, and know-how to properly service your motorcycle. Use only genuine Victory parts on your motorcycle. Imitation parts may look like Victory parts but are often inferior. Consequently, they have a shorter service life and can lead to expensive repair bills or a hazardous operating condition.

# CLEANING AND STORAGE

## Cleaning

Complete and thorough cleaning of your Victory motorcycle will accomplish many things such as:

- Extend the useful life of many components.
- As a part of the cleaning process you will also be performing a complete and thorough visual inspection that may reveal items in need of repair that you might otherwise not find.
- Enhance the value of your motorcycle.
- Extend the useful life of many cosmetic items.

Before cleaning your motorcycle, do the following:

1. Block off the end of the exhaust pipes to prevent water from entering the exhaust system.
2. Make sure the spark plugs and all filler caps are securely installed.
3. Avoid spraying the air filter assembly.

**NOTE:** Degreaser may be applied to excessively greasy areas. If you choose to use such a product, do not apply the degreaser to any cosmetically painted or plated areas. Also, do not apply the degreaser to any areas that depend upon grease for proper functioning such as brake and shifting pivot points. If degreaser is necessary in these areas, make sure to re-grease the affected areas after your cleaning is finished.

Rinse the dirt and degreaser off with a low pressure garden hose.

## CAUTION

Excessive hose pressure may cause water seepage into bearings and pivoting or sliding areas. Wheel bearings, transmission seals and electrical parts can become damaged if excessive pressure is used.

## CLEANING AND STORAGE

### Cleaning (cont.)

Once the bulk of the dirt has been rinsed off, wash all surfaces with warm water and a mild detergent.

Rinse the motorcycle off immediately with clean, low pressure water and dry the surfaces with a chamois cloth or clean soft absorbent cloth.

Repetitive polishing and cleaning will accelerate the wear of your tank badge. Do not use abrasive cleaners, they will dull the finish.

### **CAUTION**

Do not use glass cleaners or rain protective products on your windshield.

To clean the windshield, wash with a clean soft cloth, plenty of warm water, and if necessary, a non-abrasive soap such as dish-washing liquid. Flannel or a soft chamois cloth is recommended.

Paint, glue residue, or grease removal: Moisten cotton with Naphtha or turpentine followed by a wash as stated above. Apply a high quality plastic cleaner such as McGuir's Mirror-Glaze MG-17, or Novus #2, to the windshield. This will leave a protective coating on the windshield making future cleanings easier.

### Storage

To prevent storage damage due to long-term storage (60 days or more), the following guidelines should be followed.:

1. Clean the motorcycle completely.
2. Top off the fuel tank with fresh fuel and add fuel stabilizer to the fuel. The machine should be run for 15 minutes or so to distribute the fuel stabilizer through-out the fuel system.

# CLEANING AND STORAGE

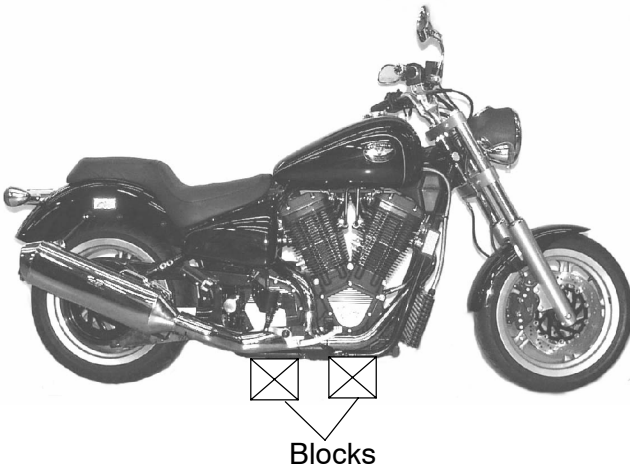
## Storage (cont.)

3. Change the engine oil as outlined on page 50.
4. Block the frame to take some of the weight off of both the front and rear wheels. (Refer to the illustration on page 78)
5. Secure a plastic bag over the exhaust outlets to prevent moisture from entering the exhaust system.

## CAUTION

Make certain the system is cool prior to securing the plastic.

6. Remove the battery and charge it. Store it in a cool, dry area. The battery should be recharged monthly using a charger that uses tapering current, not a constant current type charger. This will prevent overcharging, which is the most common cause of battery damage.



Set floor jack under the center of the engine. Raise vehicle off the floor and set 2 blocks underneath the bike as shown. Set bike down on blocks.

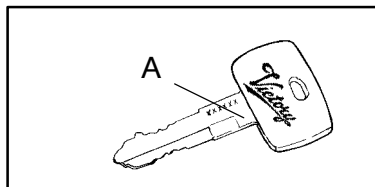
# IDENTIFICATION

## Identification Numbers Record

Record the following information in the spaces provided to help you when ordering parts or in the event that your machine is stolen.

### Key Identification Number

The key identification number is stamped on the key tag. You will need this information in the event that you need to purchase a new key.



### Vehicle Identification Number (VIN)

The vehicle identification number is stamped on the front of the steering head. **NOTE:** The VIN is used to identify your motorcycle and will be used to register your motorcycle with the licensing authority in your state.

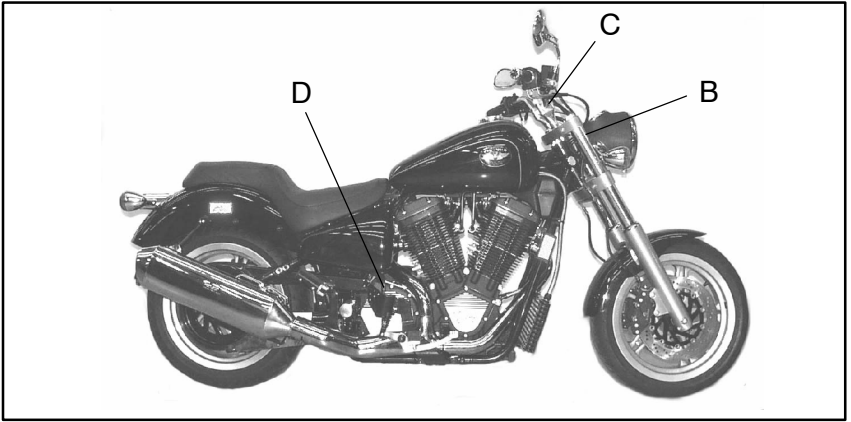
### Model Label

The model label is located on the left side of the steering head. This information will be needed to order parts or accessories from your Victory dealer.

### Engine Label

The engine label is located on top of the crankcase behind the rear cylinder. This label identifies the engine model and serial number. The engine serial number is also stamped on the crankcase to the right of the oil filter.

# IDENTIFICATION



A	Key Identification Number	
B	Vehicle Identification Number (VIN)	
C	Model Label Information	
D	Engine Identification Number	
	Engine Serial #	

## SPECIFICATIONS

C A P A C I T I E S		Standard Cruiser	SportCruiser™	Deluxe Cruiser
	Oil Capacity (Quarts)	6	6	6
	Fuel Capacity (U.S. gallons)	5	5	5
	Wheelbase (inches)	63.3	63.6	63.3
	Seat Height (inches)	28	28.5	28
	Footpeg Height (inches)	10.2	11.4	10.2
	Front Wheel Travel (inches)	5.1	5.1	5.1
	Rear Wheel Travel (inches)	4.00	4.50	4.00
	Rear Suspens- ion Type	Single Shock	Single Shock	Single Shock
	Claimed Dry Weight	631	630 lbs.	663
	Claimed Wet Weight	673	676 lbs.	703
	Overall Length (inches)	94	90.2	94
	Overall Width (inches)	29.5	37.5	41
	Overall Height (inches)	44.5	51.0	56.5
	Ground Clear- ance	5.5	5.5	5.5
	Passenger Ca- pacity	1	1	1
Maximum Load Capacity	477	474 lbs	447	



## SPECIFICATIONS

		Standard Cruiser	SportCruiser™	Deluxe Cruiser
<b>E N G I N E</b>	Engine Model Number	MCVT1507D 2001 C	MCVT1507D 2001 SC	MCVT1507D 2001 C
	Engine Configuration	50°, V-Twin	50°, V-Twin	50°, V-Twin
	Engine Displacement	1507cc (92 cubic in)	1507cc (92 cubic in)	1507cc (92 cubic in)
	Engine Cooling System	Air/Oil Cooling	Air/Oil Cooling	Air/Oil Cooling
	Compression Ratio	8.5:1	8.5:1	8.5:1
	Valves Per Cylinder	4	4	4
	Bore x Stroke	97 x 102 mm	97 x 102 mm	97 x 102 mm
	Starter	Direct Drive	Direct Drive	Direct Drive
	Throttle Body Bore Size	44 mm	44 mm	44 mm
	Exhaust System Type	Staggered Dual Exhaust	Dual Exhaust - Two into One	Staggered Dual Exhaust
	Lubrication System	Wet Sump	Wet Sump	Wet Sump
	Engine Speed @ 60 mph	2540 rpm	2350 rpm	2540 rpm
	Spark Plug	RA8GHC	RA8GHC	RA8GHC
	Spark Plug Gap	0.040" (1.0mm)	0.040" (1.0mm)	0.040" (1.0mm)

# SPECIFICATIONS

		Standard Cruiser	SportCruiser™	Deluxe Cruiser
<b>D R I V E  S Y S</b>	Transmission Type	Manual 5 Speed	Manual 5 Speed	Manual 5 Speed
	Clutch Type	Wet Clutch	Wet Clutch	Wet Clutch
	Clutch Spring Type	Compression	Compression	Compression
	Primary Drive	Gear with Torque Compensator	Gear with Torque Compensator	Gear with Torque Compensator
	Primary Drive Gear Teeth (Ratio)	1.5:1	1.5:1	1.5:1
<b>T I R E S</b>	Front Wheel	16" x 3"	17" x 3.5"	16" x 3"
	Rear Wheel	16" x 3.5"	17" x 5.5"	16" x 3.5"
	Front Tire	Dunlop 491 Elite II MT90B1671H	Dunlop D205F 120/70 ZR17	Dunlop 491 Elite II MT90B1671H
	Rear Tire	Dunlop D417 160/80 B1675H	Dunlop D205 180/55 ZR17	Dunlop D417 160/80 B1675H
<b>S U S P</b>	Front Type	Conventional Telescopic	Conventional Telescopic	Conventional Telescopic
	Front Travel (inches)	5.1	5.1	5.1
	Rear Type	Single-Shock	Single-Shock	Single-Shock
	Rear Travel (inches)	4.00	4.50	4.00
<b>B R A K E S</b>	Brake Type	Disc/Disc	Disc/Disc	Disc/Disc
	Front Brake	Single Rotor 300 x 5 mm 4 Piston Floating Caliper	Dual Rotor 300 x 5 mm 4 Piston Floating Caliper	Single Rotor 300 x 5 mm 4 Piston Floating Caliper
	Rear Brake	Rotor 300 x 6mm 2 Piston Floating Caliper	Rotor 300 x 6mm 2 Piston Floating Caliper	Rotor 300 x 6mm 2 Piston Floating Caliper

## SPECIFICATIONS

		Standard Cruiser	SportCruiser™	Deluxe Cruiser
<b>L I G H T S</b>	Headlight	5.5 amps	5.5 amps	5.5 amps
	Brake/Tail Light	2.1/1.6 amps	2.1/1.6 amps	2.1/1.6 amps
	Turn Signal Light (Front)	2.1 amps	2.1 amps	2.1 amps
	Turn Signal Light (Rear)	1.6 amps	1.6 amps	1.6 amps
	Instrument Cluster Lights Backlighting Dimming Feature	1.3 amps	1.3 amps	1.3 amps
	Neutral Indicator	LED	LED	LED
	Turn Signal Indicators	LED	LED	LED
	High Beam Indicator	LED	LED	LED
	Oil Pressure Indicator	LED	LED	LED
	Fuel Warning Indicator	LED	LED	LED

# REPORTING OF SAFETY DEFECTS

## Reporting Safety Defects

NHTSA (National Highway Traffic Safety Administration) info.

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Polaris Sales Inc. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Polaris Sales Inc. To contact NHTSA, you may either call the DOT, Auto Safety Hotline toll-free at 1-800-424-9393 visit their website ([www.nhtsa.dot.gov](http://www.nhtsa.dot.gov)) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

# CONSUMER INFORMATION

## Motorcycle Noise Regulation

### Tampering Warning: Motorcycle Noise Regulations

Tampering with Noise Control systems Prohibited. Federal law prohibits the following acts or causing thereof:

- The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use, or
- The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

#### **Among those acts presumed to constitute tampering are:**

- Removal of, or puncturing the muffler, baffles, header pipes or any other component which conducts exhaust gases.
- Removal of puncturing of any part of the intake system.
- Lack of proper maintenance.
- Replacing any moving part of the vehicle, or parts of the exhaust or intake system, with parts other than those specified by the manufacturer.

This product should be checked for repair or replacement if the motorcycle noise has increased significantly through use. Otherwise, the owner may become subject to penalties under state and local ordinances.

# CONSUMER INFORMATION

## Maintenance Record

Copies of repair orders and/or receipts for parts and/or service work you purchase is required to document that maintenance has been completed in accordance with the manufacturer's warranty policy and Federal/State emission's Warranty policies. The following chart is supplied only for your convenience so it may remind you that the maintenance work is required. It is not acceptable proof of maintenance work.

<b>Interval</b>	<b>Date</b>	<b>Mile- age</b>	<b>Dealer</b>	<b>Notes</b>
500				
2,500				
5,000				
7,500				
10,000				
12,500				
18,000				
21,000				
24,000				
27,000				
30,000				

# EMISSIONS CONTROL SYSTEM WARRANTY

Victory Motorcycles, Polaris Sales Inc. - Emission Control System Warranty Statement

## Your Warranty Rights and Obligations

The California air resources board and Victory Motorcycle Division, Polaris Sales Inc. (hereinafter Victory) are pleased to explain the emission control system warranty on your 2001 and later motorcycle. In California, new motor vehicles must be designed, built and equipped to meet the state's stringent anti-smog standards. Victory must warrant the emission control system on your motorcycle for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your motorcycle.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic converter and engine computer. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Victory will repair your motorcycle at no cost to you, including diagnosis, parts and labor.

## MANUFACTURER'S WARRANTY COVERAGE

Class I motorcycles (50-169 cc): for a period of use of five (5) years or 12,000 kilometers (7,456 miles), whichever first occurs.

Class II motorcycles (170 to 279 cc): for a period of use of five (5) years or 18,000 kilometers (11,185 miles), whichever first occurs.

Class III motorcycles (280 cc and larger): for a period of use of five (5) years or 30,000 kilometers (18,641 miles), whichever first occurs.

If an emission-related part on your motorcycle is defective, the part will be repaired or replaced by Victory. This is your emission control system DEFECTS WARRANTY.

# **EMISSIONS CONTROL SYSTEM WARRANTY**

## **OWNER'S WARRANTY RESPONSIBILITIES**

As the motorcycle owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Victory recommends that you retain all receipts covering maintenance on your motorcycle, but Victory cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your motorcycle to a Victory dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the motorcycle owner, you should be aware that Victory may deny your warranty coverage if your motorcycle or part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, you should contact Victory Motorcycle Division, Polaris Sales Inc., P.O. Box 47700, Hamel, Minnesota 55340-9960, or the California Air Resources Board, P.O. Box 8001, 9528 Telstar Avenue, El Monte, CA 91734-8001.

Victory Motorcycle Division, Polaris Sales Inc. - Limited Warranty on Emission Control System

Victory Motorcycle Division, Polaris Sales Inc., (hereinafter Victory) warrants that each new 2001 and later Victory Motorcycle that includes as standard equipment a headlight, taillight and stoplight, and is street legal:

is designed, built and equipped so as to conform at the time of initial retail purchases with all applicable regulations of the United States Environmental Protection Agency, and the California Air Resources Board; and



## EMISSIONS CONTROL SYSTEM WARRANTY

is free from defects in material and workmanship which cause such motorcycle to fail to conform with applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for a period of use, depending on the engine displacement, of 12,000 kilometers (7,456 miles), if the motorcycle's engine displacement is less than 170 cubic centimeters; of 18,000 kilometers (11,185 miles), if the motorcycle's engine displacement is equal or greater than 170 cubic centimeters but less than 280 cubic centimeters; or of 30,000 kilometers (18,641 miles), if the motorcycle's engine displacement is 280 cubic centimeters or greater; or 5 (five) years from the date of initial retain delivery, whichever occurs first.

- I. **COVERAGE.** Warranty defects shall be remedied during customary business hours at any authorized Victory motorcycle dealer located within the United States of America in compliance with the Clean Air Act and applicable regulations of the United States Environmental Protection Agency and the California Air Resources Board. Any part or parts replaced under this warranty shall become the property of Victory.

In the State of California only, emission related warranted parts are specifically defined by the state's Emission Warranty Parts List. These warranted parts are: carburetor and internal parts; intake manifold; fuel tank; fuel injection system; spark advance mechanism; crankcase breather; air cutoff valves; fuel tank cap for evaporative emission controlled vehicles; oil filler cap; pressure control valve; fuel/vapor separator; canister; igniters; breaker governors; ignition coils; ignition wires; ignition points; condensers, and spark plugs if failure occurs prior to the first scheduled replacement; and hoses, clamps, fittings and tubing used directly in these parts. Since emission related parts may vary from model to model, certain models may not contain all of these parts and certain models may contain functionally equivalent parts.

## EMISSIONS CONTROL SYSTEM WARRANTY

In the State of California only, Emission Control System emergency repairs, as provided for in the California Administrative Code, may be performed by other than an authorized Victory dealer. An emergency situation occurs when an authorized Victory dealer is not reasonably available, a part is not available within 30 days, or a repair is not complete within 30 days. Any replacement part can be used in an emergency repair. Victory will reimburse the owner for expenses, including diagnosis, not to exceed Victory's suggested retail price for all warranted parts replaced and labor charges based on Victory's recommended time allowance for the warranty repair and the geographically appropriate hourly labor rate. The owner may be required to keep receipts and failed parts in order to receive compensation.

- II. **LIMITATIONS.** This Emission Control System warranty shall not cover any of the following:
- A. Repair or replacement required as a result of:
    - (1) accident
    - (2) misuse
    - (3) repairs improperly performed or replacements improperly installed
    - (4) use of replacement parts or accessories not conforming to Victory specifications which adversely affect performance and/or
    - (5) use in competitive racing or related events.
  - B. Inspections, replacement of parts, and other services and adjustments necessary for required maintenance
  - C. Any motorcycle on which the odometer mileage has been changed so that actual mileage cannot be readily determined.

# EMISSIONS CONTROL SYSTEM WARRANTY

## III. LIMITED LIABILITY

A. The liability of Victory under this Emission Control System Warranty is limited solely to the remedying of defects in material or workmanship by an authorized Victory motorcycle dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the motorcycle or transportation of the motorcycle to or from the Victory dealer. VICTORY SHALL NOT BE LIABLE FOR ANY OTHER EXPENSES, LOSS OR DAMAGE, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY ARISING IN CONNECTION WITH THE SALE OR USE OF OR INABILITY TO USE THE VICTORY MOTORCYCLE FOR ANY PURPOSE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

B. NO EXPRESS EMISSION CONTROL SYSTEM WARRANTY IS GIVEN BY VICTORY EXCEPT AS SPECIFICALLY SET FORTH HEREIN. ANY EMISSION CONTROL SYSTEM WARRANTY IMPLIED BY LAW, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE EXPRESS EMISSION CONTROL SYSTEM WARRANTY TERMS STATED IN THIS WARRANTY. THE FOREGOING STATEMENTS OF WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

C. No dealer is authorized to modify this Victory Limited Emission Control System Warranty.

IV. **LEGAL RIGHTS.** THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

V. THIS WARRANTY IS IN ADDITION TO THE VICTORY LIMITED MOTORCYCLE WARRANTY.

## EMISSIONS CONTROL SYSTEM WARRANTY

- V. THIS WARRANTY IS IN ADDITION TO THE VICTORY LIMITED MOTORCYCLE WARRANTY.
- VI. **ADDITIONAL INFORMATION.** Any replacement part that is equivalent in performance and durability may be used in the performance of any maintenance or repairs. However, Victory is not liable for these parts. The owner is responsible for the performance of all required maintenance. Such maintenance may be performed at a service establishment or by any individual. The warranty period begins on the date the motorcycle is delivered to an ultimate purchaser.

Victory Motorcycle Division, Polaris Sales Inc.

P.O. Box 47700

Hamel, MN 55430-9960

ATTN: Warranty Department

## **NOISE EMISSION WARRANTY**

Victory Motorcycle Division warrants that this exhaust system, at the time of sale, meets all applicable U.S. EPA Federal noise standards. This warranty extends to the first person who buys this exhaust system for purposes other than resale, and to all subsequent buyers. Warranty claims should be directed to: Victory Motorcycle Division, Polaris Sales Inc., P.O. Box 47700, Hamel, MN 55340-9960

# **VICTORY MOTORCYCLE WARRANTY POLICY**

## **LIMITED WARRANTY**

Victory Motorcycle Division, Polaris Sales Inc., P.O. Box 47700, Hamel, Minnesota 55340-9960, gives a ONE YEAR LIMITED WARRANTY on all components of the Victory Motorcycle against defects in material or workmanship. This warranty covers the parts and labor charges for repair or replacement of defective parts which are covered by this warranty. This warranty begins on the date of purchase. This warranty is transferrable to another consumer during the warranty period through a Victory Motorcycle dealer.

## **REGISTRATION**

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to Victory Motorcycle Division, Polaris Sales Inc. within ten days. Upon receipt of this registration, Victory Motorcycle Division, Polaris Sales Inc. will record the registration for warranty. No verification of registration will be sent to the purchaser as the copy of the Warranty Registration Form will be the warranty entitlement. If you have not signed the original registration and received the "customer copy", please contact your dealer immediately. **NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR VICTORY MOTORCYCLE IS REGISTERED WITH VICTORY MOTORCYCLES DIVISION OF POLARIS SALES INC.**

Initial dealer preparation and set-up of your Victory Motorcycle is very important in ensuring trouble-free operation. Purchasing a machine in the crate or without proper dealer set-up will void your warranty coverage.

# VICTORY MOTORCYCLE WARRANTY POLICY

## WARRANTY COVERAGE AND EXCLUSIONS:

### LIMITATIONS OF WARRANTIES AND REMEDIES

The warranty excludes any failures that are not caused by a defect in material or workmanship. This warranty does not cover accidental damage, normal wear and tear, abuse or improper handling. This warranty also does not cover any Victory Motorcycle that has been altered structurally, modified, neglected, improperly maintained, used for racing, or used for purposes other than for which it was manufactured, or for any damages which occur during trailer transit or as a result of unauthorized service or the use of unauthorized parts. In addition, this warranty does not cover physical damage to paint or finish, stress cracks, tearing or puncturing of upholstery material, corrosion, or defects in parts, components or Victory Motorcycle due to fire, explosions or any other cause beyond Victory Motorcycle Division, Polaris Sales Inc. control.

This warranty does not cover the use of unauthorized lubricants, chemicals, or fuels that are not compatible with the Victory Motorcycle.

The exclusive remedy for breach of this warranty shall be, at Victory Motorcycle Division, Polaris Sales Inc. exclusive option, repair or replacement of any defective materials, or components or products. THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. VICTORY MOTORCYCLES DIVISION OF POLARIS SALES INC. SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE, OR OTHER TORT OR OTHERWISE. Some states do not permit the exclusion or limitation of incidental or consequential damages or implied warranties, so the above limitations or exclusions may not apply to you if inconsistent with controlling state law.

# VICTORY MOTORCYCLE WARRANTY POLICY

ALL IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO THE ABOVE ONE YEAR WARRANTY PERIOD. VICTORY MOTORCYCLES DIVISION OF POLARIS SALES INC. FURTHER DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY OTHER THAN EMISSIONS AND EXCISE WARRANTIES. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you if inconsistent with controlling state law.

## HOW TO OBTAIN WARRANTY SERVICE

If your Victory Motorcycle requires warranty service, you must take it to a Victory Motorcycle Servicing Dealer. When requesting warranty service you must present your copy of the Warranty Registration form to the dealer. (THE COST OF TRANSPORTATION TO AND FROM THE DEALER IS YOUR RESPONSIBILITY). Victory Motorcycles division of Polaris Sales Inc. suggests that you use your original selling dealer; however, you may use any Victory Motorcycle Servicing Dealer to perform warranty service.

Please work with your dealer to resolve any warranty issues. Should your dealer require any additional assistance they will contact the appropriate person at Victory Motorcycles division of Polaris Sales Inc.

This warranty also gives you specific legal rights, and you may also have other rights which vary from state to state.

If any of the above terms are void because of state or federal law, all other warranty terms will remain in effect.

## ENGINE OIL

1. Always use Polaris engine oil.
2. Never substitute or mix oil brands as serious engine damage and voiding of warranty can result.



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