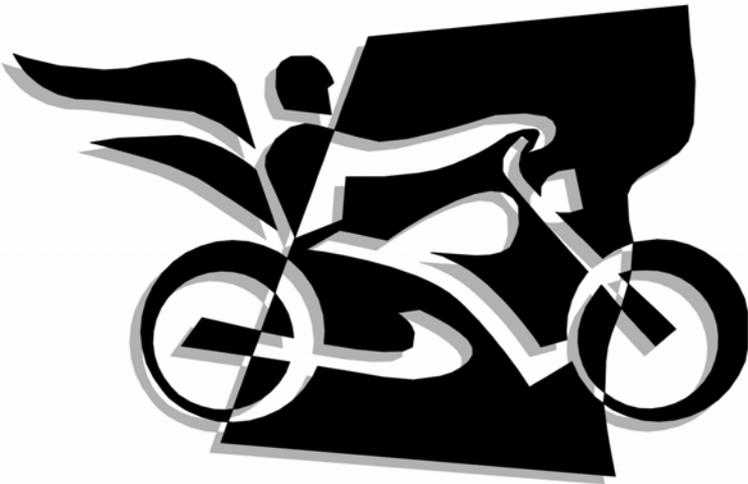

South Dakota

Motorcycle Manual



South Dakota Motorcycle Manual

To the Motorcycle Operator:

This manual contains important information for anyone wishing to operate a motorcycle. The first section of the manual is information specific to the State of South Dakota. The remainder of the manual was developed by the National Public Services Research Institute with the cooperation of the Motorcycle Safety Foundation under contract to the National Highway Safety Administration.

You are urged to study this manual thoroughly to make sure that you know the rules of the road, therefore ensuring your own safety, as well as the safety of others.

South Dakota Driver Licensing
118 West Capitol Avenue
Pierre, SD 57501
Phone: (605) 773-6883 or 1-800-952-3696
E-mail Address: DPSLicensingInfo@state.sd.us
Internet Address: www.dps.sd.gov

South Dakota Motorcycle Manual

This manual gives you information on safe driving rules and practices to help you become a safe driver. Be sure to read the manual carefully. Unless you know the information contained in this manual, you cannot pass the knowledge test.

General Information

Anyone who operates a motor vehicle or motor-driven cycle on public roadways in South Dakota is required to have a driver license. You are required to have a South Dakota driver license if you live here for more than 90 days. If you are a commercial driver license holder, you must apply for a South Dakota license within 30 days. South Dakota law states that every licensee shall have their driver license in their immediate possession at all times when operating a motor vehicle.

The following people can drive on a valid license from their home state, provided they are at least 16 years old.

Military - Members of the Armed Forces on active duty or members of foreign military on temporary duty with the Armed Forces, as well as their spouse and children.

Student - Students who are here to further their education and who are considered a non-resident for tuition purposes.

You may obtain a driver license if you:

- Are at least 14 years of age and have met the instruction permit requirement outlined in the South Dakota Graduated Licensing Laws.
- Are able to submit the proper proof of identity, citizenship or lawful status, Social Security number and address.
- Have parental/guardian consent if under age 18 for every application completed
- Pass needed driver license tests

- Surrender all driver licenses and identification cards
- Do not have suspended, revoked, or denied driving privileges in South Dakota or any other state
- Are not in this country illegally
- Have not been found by a court to be mentally incompetent, alcoholic, or a habitual user of illegal drugs
- Have no unpaid fines for moving traffic violations

Required Documents:

The documents listed must be provided before a South Dakota driver license or ID card can be issued. Please read carefully:

1. **ONE** of the following to prove identity, date of birth, and lawful status:

- Certified U.S. birth certificate issued by county or state (no hospital birth certificates)
- Valid unexpired U.S. Passport or Passport Card
- Certified Consular Report of Birth Abroad
- Certificate of Naturalization
- Certificate of Citizenship
- Valid unexpired permanent resident card
- Valid unexpired employment authorization document
- Foreign passport with valid unexpired U.S. Visa and I-94

Anyone who has changed their name since birth

(and does not have a valid U.S. Passport in their current name) needs to show proof of the name change(s). Acceptable documents for proof of legal name change are certified marriage certificate(s) (issued by a county or state vital records agency), certified adoption document, or a certified court order

authorizing a name change (such as divorce decrees). If you have been married more than once you will need to provide proof of all name changes (unless you have taken back your maiden name or hold a valid U.S. Passport).

2. **ONE** document to prove your Social Security number (the document must include your name and full Social Security number). Regulations do not allow any other documents to serve as proof of Social Security number.

- Social Security Card
- W-2 Form
- SSA 1099 or Non-SSA 1099 Form
- Pay stub

3. **TWO** documents proving your residential address. A parent's proof of address is acceptable for a minor child.

- Utility or phone bill
- Credit card statement
- Pay stub or earnings statement
- Rent receipt
- School transcript or report card
- Bank statement
- Mortgage or tax document
- Homeowners/renter's insurance policy
- Other items will be reviewed by examiners
- If you are unable to provide proof of a physical address please call or see our website for exceptions

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- PO Box addresses are acceptable in areas not assigned street or 911 address (please be prepared to write the physical location of your home on your application)

Selective Service Requirements

Registering with the Selective Service is required for young men to stay eligible for Federal Student Aid, Job Training, and Government Jobs. Any male applicant aged 18 through 25 must submit on his driver license application that he has registered with the Selective Service, or that he is authorizing the Department of Public Safety to forward to the Selective Service the personal information necessary to register. For more information regarding Selective Service Registration, contact Selective Service at 1-888-655-1825.

Fees (Cash or check only. No credit, checking or debit cards)

Regular Driver License or Instruction Permit (new, renewal or transfer from out-of-state)	\$20.00
Identification Card (new, renewal or transfer from out-of-state)	\$20.00
Replacement Driver License or Identification Card	\$10.00
Motorcycle Instruction Permit (if you already have a valid driver license)	\$10.00
Motorcycle Instruction Permit (new license or are within renewal period)	\$20.00
Conversion of valid car, motorcycle or CDL instruction permit	No charge
Commercial driver license renewal, instruction permit or transfer from out-of-state	\$25.00

South Dakota Motorcycle Manual

The fee for a commercial driver license does not include the skill (drive) test. The skill test must be conducted by a third-party tester and the tester may charge up to \$80 for testing.

For testing purposes, the fee allows you three attempts to pass a test within a 6-month period. After 3 attempts, or 6-months, the fee must be paid again.

A one time proration of fees is given to applicants under 21 years of age who are being issued less than a 5-year license.

Who Can't Get A South Dakota Driver License?

- Persons under 14 years of age.
- Persons who have a license or driving privilege withdrawn in South Dakota or any other State.
- Persons who have accumulated child support arrearages of \$1,000 or more. (These people will be issued one 6-month temporary.)
- Persons present illegally in the U.S.
- Persons who have been determined medically or psychologically unfit to drive.

Types of Motorcycle Driver Licenses

No person may operate a motorcycle on South Dakota public streets or highways without a motorcycle driver license or permit. Drivers operating a vehicle officially classified as a moped are not required to have a special motorcycle driver license or endorsement, but must have a valid South Dakota car/truck (Class 1) driver license.

Anyone under the age of 18 must be accompanied by their parent or legal guardian.

Motorcycle Instruction Permit — To obtain a Motorcycle Instruction Permit, you must be at least 14 years of age and pass the vision, knowledge (car/truck and motorcycle) tests. Minors at least 14 years of age, but less than 18 years of age, must hold the valid permit continuously for 180 days (90 days if successful completion of an approved Department of Education & Cultural Affairs driver education course) prior to upgrade of the permit to a Motorcycle Restricted Minor's Permit or a Motorcycle Operator's License. However, if in addition to the approved driver education course, the person has successfully completed the national motorcycle safety course, the Motorcycle Instruction Permit only needs to be held for 30 continuous days. The permit is valid for one year or on the same date as the expiration date on the valid documents authorizing the applicant's presence in the United States, whichever occurs first. If the applicant is under 18 years of age and the Motorcycle Instruction Permit expires, the minor is required to obtain another Instruction Permit for the required time.

Restrictions: The Motorcycle Instruction Permit holder may operate a motorcycle during the hours of 6 a.m. to 8 p.m. if accompanied by a licensed motorcycle operator who is at least eighteen years of age, who has a least one year of driving experience and who is driving another motorcycle along with the permit holder. No Motorcycle Instruction Permit holder may carry another person on the motorcycle.

Motorcycle Restricted Minor's Permit — To obtain a Motorcycle Restricted Minor's Permit, you must be at least 14 years of age and pass the vision, knowledge (car/truck and motorcycle) tests, and motorcycle drive test, complete the requirements of the Instruction Permit, and have not

been convicted of a traffic violation during the past six months prior to obtaining the Motorcycle Restricted Minor's Permit. An individual up to age 18 years of age may hold a Motorcycle Restricted Minor's Permit. The permit is valid for 5 years or until the same date as the expiration date of the valid documents authorizing the applicant's presence in the United States, whichever occurs first.

Restrictions: Entitles the holder, while having the permit in his immediate possession, to operate a motorcycle during the hours of 6:00 am to 8:00 pm if the motorcycle is being operated with the permission of the minor's parent or legal guardian.

Motorcycle Operator's License — To obtain a Motorcycle License, you must be at least 16 years of age and pass the vision, knowledge (car/truck and motorcycle) tests, and motorcycle driving test. If a minor is at least 16 years of age, but under 18 years of age, they must complete the requirements of the Instruction Permit and have not been convicted of a traffic violation during the past six months prior to obtaining the Motorcycle Operator's License. The license is valid for 5 years or until the same date as the expiration date on the valid documents authorizing the applicant's presence in the United States, whichever occurs first.

CDL with Motorcycle – A person who already has a valid CDL (Commercial Driver License) may apply for a motorcycle license class with his/her CDL. The applicant must pass the motorcycle written and driving tests. The license will indicate a Class A, B or C (for CDL) and a code 3 for motorcycle (example: Class A3).

Duplicate License — When a duplicate license is obtained, your license will retain the original license expiration date.

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To obtain a duplicate license you must provide 2 proofs of identification; one of which should include your name and date of birth. Our examiners may scrutinize all documents and request additional information for verification of identity.

Moped Operators — You must be in possession of a valid Operator's License.

Identification Card — To obtain an Identification Card, you must provide identity documents (see pages ii-v). There is no age requirement. The card is valid for 5 years or until the same date as the expiration date on the valid documents authorizing the applicant's presence in the United States, whichever occurs first. If you are not a United States citizen, you will be required to present a Naturalization and Immigration record authorizing your legal presence in the United States. Driver examiners have the right to scrutinize all documents and request additional information for verification of identity prior to issuance of the identification card.

Any driver license or non-driver identification card issued to any individual under 21 years of age with five years or less remaining until applicant's 21st birthday will expire 30 days after individual's 21st birthday.

NOTE: Per South Dakota law, every licensee shall have his driver license in his immediate possession at all times when operating a motor vehicle and shall display the same upon demand of a judge or a court of record, a magistrate, a peace officer, or a field deputy or inspector of the Department of Public Safety.

Examinations

Cooperation With Examiner

- The applicant must cooperate fully with the examiner and follow all instructions.
- License applicants must furnish their own motorcycle for the on-the-road test.
- Pets or passengers will not be allowed on the motorcycle during the on-the-road test.
- It is recommended that children or pets not be brought to the exam station. Children and pets are not permitted in the testing area or on drive tests.

Examination Procedures

You may apply for a South Dakota motorcycle license at any exam station within the state. Licenses may be renewed 180 days prior to their expiration date unless the applicant is turning 21 years of age upon renewal. Licenses expiring 30 days after licensee's 21st birthday may only be renewed within the 30 days immediately following the birth date. For other Driver Licensing information regarding locations, procedures, testing times & locations, handicap assistance, and other issues call 1-800-952-3696; or you may visit the South Dakota web site at www.state.sd.us/dps/dl.

When applying for your South Dakota Driver License, your social security number will be requested, and your current South Dakota or out-of-state driver license or out-of-state identification card must be surrendered . If you do not have a license or I.D. to surrender, you must establish your identity by providing TWO forms of identity (Refer to pages ii through v). If you are currently holding a valid out-of-state driver license, no testing will be required for the transfer of that license. Examiners may request additional documentation for proof of identity.

1. Vision Test:

If you wear glasses or contact lenses while taking the vision test, you will be required to wear them whenever driving. If you do not pass the vision test, you must present a statement from an Optometrist or Ophthalmologist certifying that you possess the visual ability to drive safely before continuing the examination process.

2. Knowledge Test:

You will be required to pass a test covering the rules of the road and safe driving practices.

3. Driving Test:

This test will provide you the opportunity to demonstrate your ability to safely operate a motorcycle. The driving test consists of normal driving tasks. You will not be asked to do anything against the law.

4. Photo:

When you have successfully completed all required tests, your photograph will be taken and you will be issued your license.

Unsuccessful Examinations

If you fail any of the tests, you may not re-test before the next working day. You may wait longer if you want more time to study the manual or to practice driving. You are allowed 3 opportunities to test for each fee paid within a 6-month period. After 3 failures in the 6-month period a new fee must be paid.

Restrictions Placed On License

A motorcycle license may be issued subject to certain restrictions. For example, a person who cannot see clearly with their right or left eye will be restricted to driving a vehicle with a left outside rearview mirror.

Equipment Information and Requirements

A motorcycle is any motorized two or three-wheeled vehicle, except a tractor or farm implement. This means that mopeds, mini-bikes, motorscooters, and motorized bicycles are all considered motorcycles under South Dakota law (with certain exceptions).

Certain mopeds are treated differently than motorcycles under the law. There is a special definition to separate mopeds and motorcycles in these cases.

Definition: A moped is a motor driven cycle equipped with two or three wheels. If a combustion engine is used, the maximum piston or rotor displacement shall be fifty cubic centimeters regardless of the number of chambers in such power source. The power source shall be equipped with a power drive system that functions directly or automatically only, not requiring clutching or shifting by the operator after the drive system is engaged.

Required Motorcycle Equipment

State and federal laws require the following equipment:

A permanently attached seat for the driver. A motorcycle may not carry a passenger unless a permanently attached seat and foot pegs are provided for a passenger;

A properly maintained muffler or mufflers;

At least one reflector on the rear of the motorcycle;

At least one rear view mirror;

A horn which can be heard for at least 200 feet;

South Dakota Motorcycle Manual

A brake or brakes capable of stopping the vehicle in 30 feet or less from a speed of 20 M.P.H.;

At least one, but no more than two headlights;

A white license plate light, which is lighted when the headlamp is on;

A red taillight which is lighted when the headlamp is on and which is visible for at least 500 feet to the rear;

A red stop light which is lighted when the brakes are activated and is visible for at least 300 feet to the rear.

No person may operate a motorcycle with the handlebars positioned so that the grips are at or above shoulder height of the person sitting astride the seat.

It is unlawful for a person under 18 years of age to drive or ride on a motorcycle unless that person wears an approved safety helmet. Although motorcycle drivers and passengers 18 years of age or older are not required by law to wear a helmet, accident statistics have shown that persons who were wearing helmets at the time of an accident experienced less injury than those who were not wearing helmets. The South Dakota Department of Public Safety therefore urges all motorcycle operators and riders to wear motorcycle helmets while riding.

Eye protective devices must be worn by all operators of all motorcycles, including mopeds, either in the form of windshields, glasses, goggles or face shields of safety glass or plastic. All eye protective devices must meet the minimum standards as required by the South Dakota Department of Public Safety.

Special Motorcycle Regulations

All basic rules of the road in the South Dakota Vehicle Code apply to motorcycles as well as other vehicles.

No dealer or person can loan or rent a motorcycle (mopeds excepted) unless the person renting or borrowing the motorcycle has a valid motorcycle license, permit or endorsement. Only the person who borrows or rents the motorcycle is permitted to drive it.

The operator of a motorcycle can ride only while sitting astride the seat facing forward.

No operator may carry any package, or other article that prevents him or her from keeping both hands on the handlebars or obstructs their vision.

No passenger can ride in a position that might interfere with the safe operation of the motorcycle or obstruct the view of the operator.

The operator of a motorcycle must change lanes when passing any vehicle in the same lane.

No person shall operate a motorcycle between lanes of traffic or between adjacent lanes or rows of vehicles. Motorcycles cannot be operated more than two abreast in any single lane.

No person shall operate a motorcycle in any municipal, county, state park or recreation area except upon the normally traveled roads or in specifically designated areas.

No person riding upon a motorcycle shall attach themselves or the motorcycle to any other moving vehicle on a street or roadway.

No person, other than a law enforcement officer or conservation officer, shall operate or ride on any motorcycle with any firearm in their possession unless the firearm is completely unloaded and within a carrying case which encloses the entire firearm.

No motorcycle instruction permit holder may carry another person on the motorcycle.

Motorcycle Registration and Title

All motorcycles owned by South Dakota residents and operated on public streets and highways must be registered with the Department of Revenue. You have 90 days to register a motorcycle brought in from another state. You must register your motorcycle with the County Treasurer, in the county in which you reside. All owners shall continue to renew the registration of their motorcycle during the month assigned to the first initial of their last name. A certificate of title is required to sell or transfer any motorcycle. The registration certificate and proof of liability insurance card must be carried on the motorcycle at all times. Motorcycles officially classified as mopeds are exempt from registration and title requirements.

South Dakota Motorcycle Manual

PREFACE

Operating a motorcycle safely in traffic requires special skills and knowledge. The Motorcycle Safety Foundation has made this manual available to help novice motorcyclists reduce their risk of having an accident. The manual conveys essential safe-driving information and has been designed for use in state licensing programs. While designed for the novice, all motorcyclists can benefit from the information this manual contains.

The original *Motorcycle Operator Manual* was developed by the National Public Services Research Institute (NPSRI) under contract to the National Highway Traffic Safety Administration (NHTSA) and within the terms of a cooperative agreement between NHTSA and the Motorcycle Safety Foundation. The manual and related tests were used in a multi-year study of improved motorcycle operator license procedures, conducted by the California Department of Motor Vehicles under contract to NHTSA.

The purpose of this manual is to educate the reader to help avoid accidents while safely operating a motorcycle. For this edition, the Motorcycle Safety Foundation has updated and expanded the content of the original manual. These revisions reflect:

- The latest findings of motorcycle-safety research.
- Comments and guidance provided by the motorcycling, licensing, and traffic-safety communities.
- Expanded alcohol and drug information.

In promoting improved licensing programs, the Motorcycle Safety Foundation works closely with state licensing agencies. The Foundation has helped more than half the states in the nation adopt the *Motorcycle Operator Manual* for use in their licensing systems.

Improved licensing, along with quality motorcycle rider education and increased public awareness, has the potential to reduce the number and severity of motorcycle accidents. Staff at the Foundation are available to assist state, private and governmental agencies in efforts to improve motorcycle safety.

Tim Buche, President
Motorcycle Safety Foundation

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PREPARING TO RIDE

What you do before you start a trip goes a long way toward determining whether or not you'll get where you want to go safely. Before taking off on any trip, a safe rider makes a point to:

1. **Wear the right gear.**
 2. **Become familiar with the motorcycle.**
 3. **Check the motorcycle equipment.**
 4. **Be a responsible rider.**
-

WEAR THE RIGHT GEAR

When you ride, your gear is "right" if it protects you. In any crash, you have a far better chance of avoiding serious injury if you wear:

- **An approved helmet.**
- **Face or eye protection.**
- **Protective clothing.**

HELMET USE

Crashes are not rare events — particularly among beginning riders. And one out of every five motorcycle crashes results in head or neck injuries. Head injuries are just as severe as neck injuries — and far more common. Crash analyses show that head and neck injuries account for a majority of serious and fatal injuries to motorcyclists. Research also shows that, with few exceptions, head and neck injuries are reduced by the proper wearing of an approved helmet.

Some riders don't wear helmets because they think helmets will limit their view to the sides. Others wear helmets only on long trips or when riding at high speeds. Here are some facts to consider:

- **An approved helmet** lets you see as far to the sides as necessary. A study of more than 900 motorcycle crashes, where 40% of the riders wore helmets, did not find even one case in which a helmet kept a rider from spotting danger.
- **Most crashes happen** on short trips (less than five miles long), just a few minutes after starting out.
- **Most riders** are riding slower than 30 mph when a crash occurs. At these speeds, helmets can cut both the number and the severity of head injuries by half.

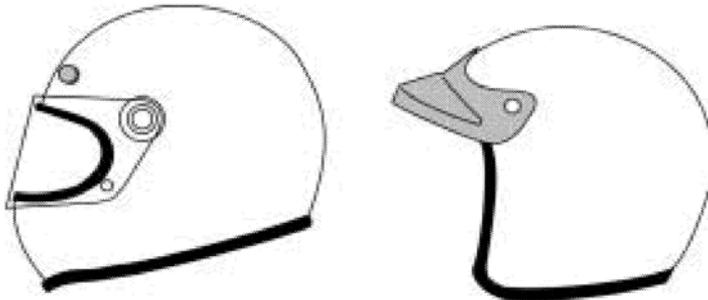
No matter what the speed, helmeted riders are three times more likely to survive head injuries than those not wearing helmets at the time of the crash.

HELMET SELECTION

There are two primary types of helmets, providing two different levels of coverage: three-quarter and full face.

Whichever style you choose, you can get the most protection by making sure that the helmet:

HELMETS



HELMET USE

EYE AND FACE PROTECTION

- **Meets U.S.** Department of Transportation (DOT) and state standards. Helmets with a label from the Snell Memorial Foundation give you an added assurance of quality.
- **Fits snugly**, all the way around.
- **Has no obvious defects** such as cracks, loose padding or frayed straps.

Whatever helmet you decide on, keep it securely fastened on your head when you ride. Otherwise, if you are involved in a crash, it's likely to fly off your head before it gets a chance to protect you.

EYE AND FACE PROTECTION

A plastic shatter-resistant faceshield can help protect your whole face in a crash. It also protects you from wind, dust, dirt, rain, insects and pebbles thrown up from cars ahead. These problems are distracting and can be painful. If you have to deal with them, you can't devote your full attention to the road.

Goggles protect your eyes, though they won't protect the rest of your face like a faceshield does. A windshield is not a substitute for a faceshield or goggles. Most windshields will not protect your eyes from the wind. Neither will eyeglasses or sunglasses. Glasses won't keep your eyes from watering, and they might blow off when you turn your head while riding.

To be effective, eye or faceshield protection must:

- **Be free** of scratches.
- **Be resistant** to penetration.
- **Give a clear view** to either side.
- **Fasten securely**, so it does not blow off.
- **Permit air** to pass through, to reduce fogging.
- **Permit enough room** for eyeglasses or sunglasses, if needed.

Tinted eye protection should not be worn at night or any other time when little light is available.

CLOTHING

The right clothing protects you in a collision. It also provides comfort, as well as protection from heat, cold, debris and hot and moving parts of the motorcycle.

- **Jacket and pants** should cover arms and legs completely. They should fit snugly enough to keep from flapping in the wind, yet loosely enough to move freely. Leather offers the most protection. Sturdy synthetic material provides a lot of protection as well. Wear a jacket even in warm weather to prevent dehydration. Many are designed to protect without getting you overheated, even on summer days.
- **Boots or shoes** should be high and sturdy enough to cover your ankles and give them support. Soles should be made of hard, durable, slip-resistant material. Keep heels short so they do not catch on rough surfaces. Tuck in laces so they won't catch on your motorcycle.
- **Gloves** allow a better grip and help protect your hands in a crash. Your gloves should be made of leather or similar durable material.

In cold or wet weather, your clothes should keep you warm and dry, as well as protect you from injury. You cannot control a motorcycle well if you are numb. Riding for long periods in cold weather can cause severe chill and fatigue. A winter jacket should resist wind and fit snugly at the neck, wrists and waist. Good-quality rainsuits designed for motorcycle riding resist tearing apart or ballooning up at high speeds.

KNOW YOUR MOTORCYCLE

There are plenty of things on the highway that can cause you trouble. Your motorcycle should not be one of them. To make sure that your motorcycle won't let you down:

- **Read** the owner's manual first.
- **Start** with the right motorcycle for you.
- **Be familiar** with the motorcycle controls.
- **Check** the motorcycle before every ride.
- **Keep** it in safe riding condition between rides.
- **Avoid** add-ons and modifications that make your motorcycle harder to handle.

THE RIGHT MOTORCYCLE FOR YOU

First, make sure your motorcycle is right for you. It should "fit" you. Your feet should reach the ground while you are seated on the motorcycle.

1

Test Yourself

A plastic shatter-resistant face shield:

- A. Is not necessary if you have a windshield.
- B. Only protects your eyes.
- C. Helps protect your whole face.
- D. Does not protect your face as well as goggles.

Answer - page 37

At minimum, your street-legal motorcycle should have:

- **Headlight, taillight and brakelight.**
- **Front and rear brakes.**
- **Turn signals.**
- **Horn.**
- **Two mirrors.**

BORROWING AND LENDING

Borrowers and lenders of motorcycles, beware. Crashes are fairly common among beginning riders — especially in the first months of riding. Riding an unfamiliar motorcycle adds to the problem. If you borrow a motorcycle, get familiar with it in a controlled area. And if you lend your motorcycle to friends, make sure they

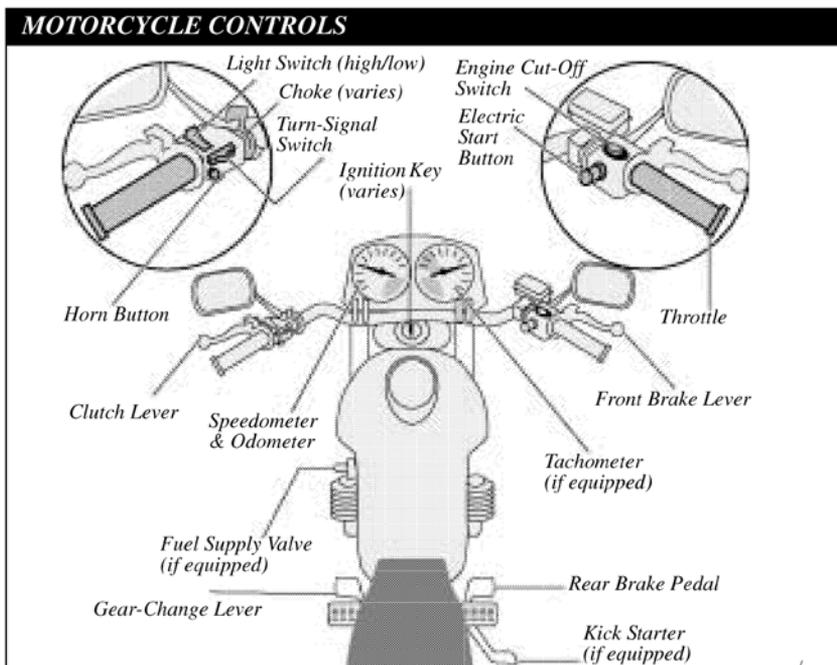
are licensed and know how to ride before allowing them out into traffic.

No matter how experienced you may be, ride extra carefully on any motorcycle that's new or unfamiliar to you. More than half of all crashes occur on motorcycles ridden by the operator for less than six months.

GET FAMILIAR WITH THE MOTORCYCLE CONTROLS

Make sure you are completely familiar with the motorcycle before you take it out on the street. Be sure to review the owner's manual. This is particularly important if you are riding a borrowed motorcycle.

If you are going to use an unfamiliar motorcycle:



- **Make all the checks** you would on your own motorcycle.
- **Find out where everything is**, particularly the turn signals, horn, headlight switch, fuel-control valve and engine cut-off switch. Find and operate these items without having to look for them.
- **Know the gear pattern.** Work the throttle, clutch and brakes a few times before you start riding. All controls react a little differently.
- **Ride very cautiously** and be aware of surroundings. Accelerate gently, take turns more slowly and leave extra room for stopping.
- **Brake Light** — Try both brake controls, and make sure each one turns on the brake light.

Once you have mounted the motorcycle, complete the following checks before starting out:

- **Clutch and Throttle** — Make sure they work smoothly. The throttle should snap back when you let go. The clutch should feel tight and smooth.
- **Mirrors** — Clean and adjust both mirrors before starting. It's difficult to ride with one hand while you try to adjust a mirror. Adjust each mirror so you can see the lane behind and as much as possible of the lane next to you. When properly adjusted, a mirror may show the edge of your arm or shoulder—but it's the road behind and to the side that's most important.
- **Brakes** — Try the front and rear brake levers one at a time. Make sure each one feels firm and holds the motorcycle when the brake is fully applied.
- **Horn** — Try the horn. Make sure it works.

In addition to the checks you should make before every trip, check the following items at least once a week: Wheels, cables, fasteners and fluid checks. Follow your owner's manual to get recommendations.

CHECK YOUR MOTORCYCLE

A motorcycle needs more frequent attention than a car. A minor technical failure in a car seldom leads to anything more than an inconvenience for the driver.

If something's wrong with the motorcycle, you'll want to find out about it before you get in traffic. Make a complete check of your motorcycle before every ride.

Before mounting the motorcycle, make the following checks:

- **Tires** — Check the air pressure, general wear and tread.
- **Fluids** — Oil and fluid levels. At a minimum, check hydraulic fluids and coolants weekly. Look under the motorcycle for signs of an oil or gas leak.
- **Headlights and Taillight** — Check them both. Test your switch to make sure both high and low beams are working.
- **Turn Signals** — Turn on both right and left turn signals. Make sure all lights are working properly.

2

Test Yourself

More than half of all crashes:

- Occur at speeds greater than 35 mph.
- Happen at night.
- Are caused by worn tires.
- Involve riders who have ridden their motorcycles less than six months.

Answer - page 37

KNOW YOUR RESPONSIBILITIES

“Accident” implies an unforeseen event that occurs without anyone’s fault or negligence. Most often in traffic, that is not the case. In fact, most people involved in a crash can usually claim some responsibility for what takes place.

Consider a situation where someone decides to try to squeeze through an intersection on a yellow light turning red. Your light turns green. You pull into the intersection without checking for possible latecomers. That is all it takes for the two of you to tangle. It was the driver’s responsibility to stop. And it was your responsibility to look before pulling out. Neither of you held up your end of the deal. Just because someone else is the first to start the chain of events leading to a crash, it doesn’t leave any of us free of responsibility.

As a rider you can’t be sure that other operators will see you or yield the right of way. To lessen your chances of a crash occurring:

- **Be visible** — wear proper clothing, use your headlight, ride in the best lane position to see and be seen.
- **Communicate your intentions** — use the proper signals, brake light and lane position.
- **Maintain an adequate space cushion** — following, being followed, lane sharing, passing and being passed.
- **Scan your path** of travel 12 seconds ahead.
- **Identify and separate** multiple hazards.
- **Be prepared to act** — remain alert and know how to carry out proper crash-avoidance skills.

Blame doesn’t matter when someone is injured in a crash. There is rarely a single cause of any crash. The ability to ride aware, make critical decisions and carry them out separates responsible riders from all the rest. Remember, it is up to you to keep from being the cause of, or an unprepared participant in, any crash.

RIDE WITHIN YOUR ABILITIES

This manual cannot teach you how to control direction, speed or balance. That's something you can learn only through practice. But control begins with knowing your abilities and riding within them, along with knowing and obeying the rules of the road.

BASIC VEHICLE CONTROL

BODY POSITION

To control a motorcycle well:

- **Posture** — Sit so you can use your arms to steer the motorcycle rather than to hold yourself up.
- **Seat** — Sit far enough forward so that arms are slightly bent when you hold the handlegrips. Bending your arms permits you to press on the handlebars without having to stretch.
- **Hands** — Hold the handlegrips firmly to keep your grip over rough surfaces. Start with your right wrist flat. This will help you keep from accidentally using

too much throttle. Also, adjust the handlebars so your hands are even with or below your elbows. This permits you to use the proper muscles for precision steering.

- **Knees** — Keep your knees against the gas tank to help you keep your balance as the motorcycle turns.
- **Feet** — Keep your feet firmly on the footpegs to maintain balance. Don't drag your feet. If your foot catches on something, you could be injured and it could affect your control of the motorcycle. Keep your feet near the controls so you can get to them fast if needed. Also, don't let your toes point downward—they may get caught between the road and the footpegs.

SHIFTING GEARS

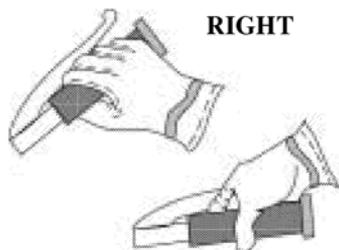
There is more to shifting gears than simply getting the motorcycle to pick up speed smoothly. Learning to use the gears when downshifting, turning or starting on hills is important for safe motorcycle operation.

Shift down through the gears with the clutch as you slow or stop. Remain in first gear while you are stopped so that you can move out quickly if you need to.

BODY POSITION

SHIFTING GEARS

HOLDING HANDLEGRIPS



Make certain you are riding slowly enough when you shift into a lower gear. If not, the motorcycle will lurch, and the rear wheel may skid. When riding downhill or shifting into first gear you may need to use the brakes to slow enough before downshifting safely. Work toward a smooth, even clutch release, especially when downshifting.

It is best to change gears before entering a turn. However, sometimes shifting while in the turn is necessary. If so, remember to do so smoothly. A sudden change in power to the rear wheel can cause a skid.

BRAKING

Your motorcycle has two brakes: one each for the front and rear wheel. Use both of them at the same time. The front brake is more powerful and can provide **at least three-quarters** of your total stopping power. The front brake is safe to use if you use it properly.

Remember:

- **Use both brakes every time** you slow or stop. Using both brakes for even “normal” stops will permit you to develop the proper habit or skill of using both brakes properly in an emergency. Squeeze the front brake and press down on the rear. Grabbing at the front brake or jamming down on the rear can cause the brakes to lock, resulting in control problems.
- **If you know the technique**, using both brakes in a turn is possible, although it should be done very carefully. When leaning the motorcycle some of the traction is used for cornering. Less traction is available for stopping. A skid can occur if you apply too much brake.

Also, using the front brake incorrectly on a slippery surface may be hazardous. Use caution and **squeeze** the brake lever, never grab.

- **Some motorcycles** have integrated braking systems that link the front and rear brakes together by applying the rear brake pedal. (Consult the owner’s manual for a detailed explanation on the operation and effective use of these systems.)

TURNING

Riders often try to take curves or turns too fast. When they can’t hold the turn, they end up crossing into another lane of traffic or going off the road. Or, they overreact and brake too hard, causing a skid and loss of control. Approach turns and curves with caution.

Use four steps for better control:

- **SLOW**
- **LOOK**
- **PRESS**
- **ROLL**

SLOW — Reduce speed before the turn by closing the throttle and, if necessary, applying both brakes.

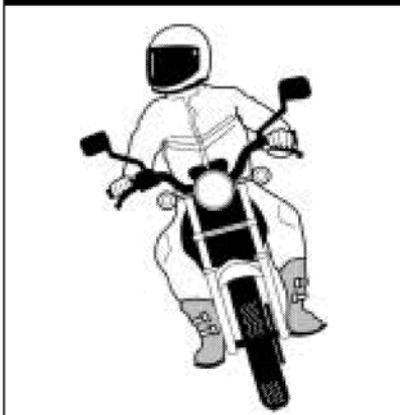
LOOK — Look through the turn to where you want to go. Turn just your head, not your shoulders, and keep your eyes level with the horizon.

PRESS — To turn, the motorcycle must lean. To lean the motorcycle, press on the handlegrip in the direction of the turn. Press left—lean left—go left. Press right—lean right—go right. Higher speeds and/or tighter turns require the motorcycle to lean more.

- **ROLL** — Roll on the throttle through the turn to stabilize suspension. Maintain steady speed or accelerate gradually through the turn. This will help keep the motorcycle stable.

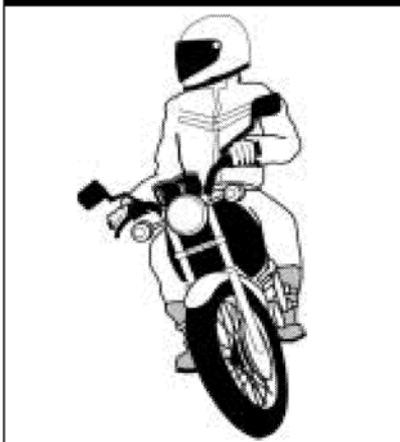
In normal turns, the rider and the motorcycle should lean together at the same angle.

NORMAL TURNING



In slow tight turns, counterbalance by leaning the motorcycle only and keeping your body straight.

NORMAL TURNING



3. *Test Yourself*

When riding, you should:

- Turn your head and shoulders to look through turns.
- Keep your arms straight.
- Keep your knees away from the gas tank.
- Turn just your head and eyes to look where you are going.

Answer - page 37

KEEPING YOUR DISTANCE

The best protection you can have is distance — a “cushion of space” — all around your motorcycle. If someone else makes a mistake, distance permits you:

- **Time to react.**
- **Space to maneuver.**

LANE POSITIONS

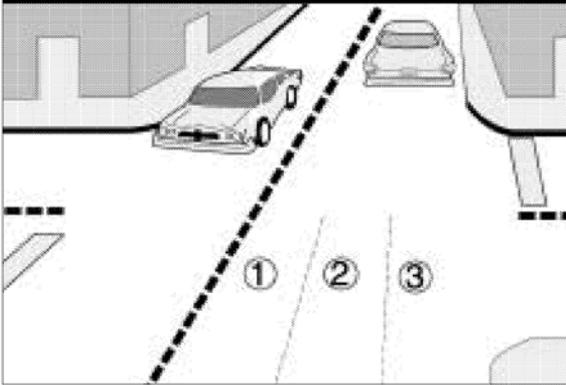
In some ways the size of the motorcycle can work to your advantage. Each traffic lane gives a motorcycle three paths of travel, as indicated in the illustration.

Your lane position should:

- **Increase** your ability to see and be seen.
- **Avoid** others’ blind spots.
- **Avoid** surface hazards.
- **Protect** your lane from other drivers.
- **Communicate** your intentions.
- **Avoid** wind blast from other vehicles.
- **Provide** an escape route.

Select the appropriate path to maximize your space cushion and make yourself more easily seen by others on the road.

LANE POSITIONS



In general, there is no single best position for riders to be seen and to maintain a space cushion around the motorcycle. No portion of the lane need be avoided — including the center.

Position yourself in the portion of the lane where you are most likely to be seen and you can maintain a space cushion around you. Change position as traffic situations change. Ride in path 2 or 3 if vehicles and other potential problems are on your left only. Remain in path 1 or 2 if hazards are on your right only. If vehicles are being operated on both sides of you, the center of the lane, path 2, is usually your best option.

The oily strip in the center portion that collects drippings from cars is usually no more than two feet wide. Unless the road is wet, the average center strip permits adequate traction to ride on safely. You can operate to the left or right of the grease strip and still be within the center portion of the traffic lane. Avoid riding on big buildups of oil and grease usually found at busy intersections or toll booths.

FOLLOWING ANOTHER VEHICLE

“Following too closely” could be a factor in crashes involving motorcyclists. In traffic, motorcycles need as much distance to stop as cars. Normally, **a minimum of two seconds** distance should be maintained behind the vehicle ahead.

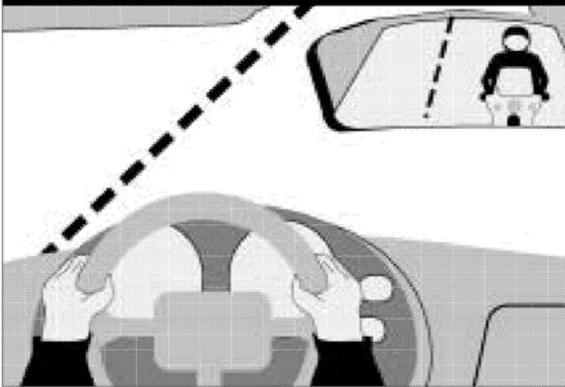
To gauge your following distance:

- **Pick out a marker**, such as a pavement marking or lamppost, on or near the road ahead.
- **When the rear bumper** of the vehicle ahead passes the marker, count off the seconds: “one-thousand-one, one-thousand-two.”
- **If you reach the marker** before you reach “two,” you are following too closely.

A two-second following distance leaves a minimum amount of space to stop or swerve if the driver ahead stops suddenly. It also permits a better view of potholes and other hazards in the road.

A larger cushion of space is needed if your motorcycle will take longer than normal to stop. If the

FOLLOWING



BEING FOLLOWED

pavement is slippery, if you cannot see through the vehicle ahead, or if traffic is heavy and someone may squeeze in front of you, open up a three-second or more following distance.

Keep well behind the vehicle ahead even when you are stopped. This will make it easier to get out of the way if someone bears down on you from behind. It will also give you a cushion of space if the vehicle ahead starts to back up for some reason.

When behind a car, ride where the driver can see you in the rearview mirror. Riding in the center portion of the lane should put your image in the middle of the rearview mirror — where a driver is most likely to see you.

Riding at the far side of a lane may permit a driver to see you in a sideview mirror. But remember that most drivers don't look at their sideview mirrors nearly as often as they check the rearview mirror. If the traffic situation allows, the center portion of the lane is usually the best place for you to be seen by the

drivers ahead and to prevent lane sharing by others.

BEING FOLLOWED

Speeding up to lose someone following too closely only ends up with someone tailgating you at a higher speed.

A better way to handle tailgaters is to get them in front of you. When someone is following too closely, change lanes and let them pass. If you can't do this, slow down and open up extra space ahead of you to allow room for both you and the tailgater to stop. This will also encourage them to pass. If they don't pass, you will have given yourself and the tailgater more time and space to react in case an emergency does develop ahead.

PASSING AND BEING PASSED

Passing and being passed by another vehicle is not much different than with a car. However, visibility is more critical. Be sure other drivers see you, and that you see potential hazards.

PASSING

1. **Ride in the left portion** of the lane at a safe following distance to increase your line of sight and make you more visible. Signal and check for oncoming traffic. Use your mirrors and turn your head to look for traffic behind.
2. **When safe**, move into the left lane and accelerate. Select a lane position that doesn't crowd the car you are passing and provides space to avoid hazards in your lane.
3. **Ride through the blind spot** as quickly as possible.
4. **Signal again**, and complete mirror and headchecks before returning to your original lane and then cancel the signal.

Remember, passes must be completed within posted speed limits, and only where permitted. Know your signs and road markings!

BEING PASSED

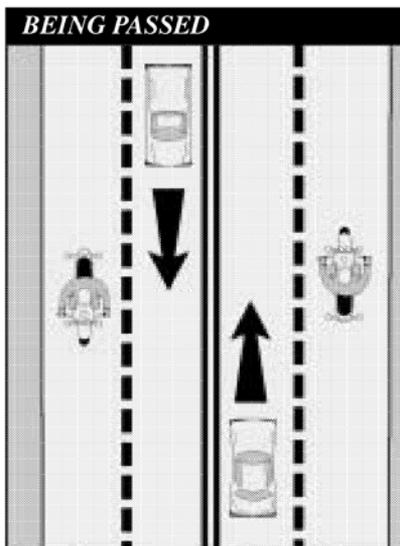
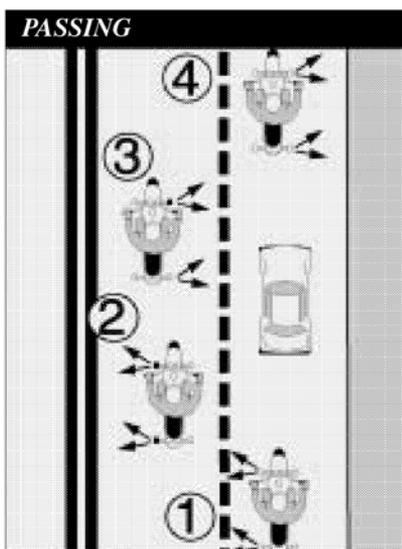
When you are being passed from behind or by an oncoming vehicle,

stay in the center portion of your lane. Riding any closer to them could put you in a hazardous situation.

Avoid being hit by:

- **The other vehicle** — A slight mistake by you or the passing driver could cause a sideswipe.
- **Extended mirrors** — Some drivers forget that their mirrors hang out farther than their fenders.
- **Objects thrown from windows** — Even if the driver knows you're there, a passenger may not see you and might toss something on you or the road ahead of you.
- **Blasts of wind from larger vehicles** — They can affect your control. You have more room for error if you are in the middle portion when hit by this blast than if you are on either side of the lane.

Do not move into the portion of the lane farthest from the passing vehicle. It might invite the other driver to cut back into your lane too early.



LANE SHARING

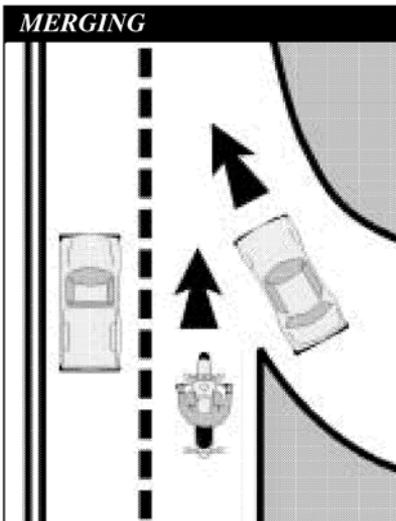
Cars and motorcycles need a full lane to operate safely. Lane sharing is usually prohibited.

Riding between rows of stopped or moving cars in the same lane can leave you vulnerable to the unexpected. A hand could come out of a window; a door could open; a car could turn suddenly. Discourage lane sharing by others. Keep a center-portion position whenever drivers might be tempted to squeeze by you. Drivers are most tempted to do this:

- **In heavy**, bumper-to-bumper traffic.
- **When they** want to pass you.
- **When you** are preparing to turn at an intersection.
- **When you** are getting in an exit lane or leaving a highway.

MERGING CARS

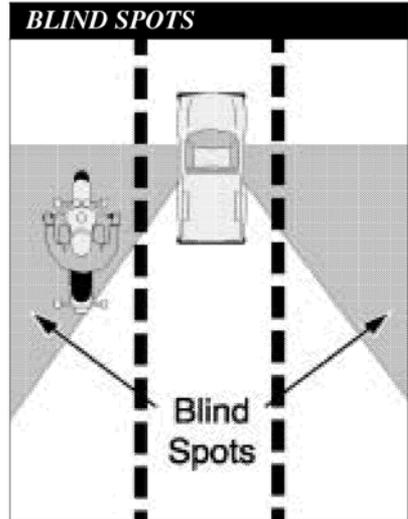
Drivers on an entrance ramp may not see you on the highway. Give them plenty of room. Change to



another lane if one is open. If there is no room for a lane change, adjust speed to open up space for the merging driver.

CARS ALONGSIDE

Do not ride next to cars or trucks in other lanes if you do not have to. You might be in the blind spot of a car in the next lane, which could switch into your lane without warning. Cars in the next lane also block your escape if you come upon danger in your own lane. Speed up or drop back to find a place clear of traffic on both sides.



4

Test Yourself

Usually, a good way to handle tailgaters is to:

- Change lanes and let them pass.
- Use your horn and make obscene gestures.
- Speed up to put distance between you and the tailgater.
- Ignore them.

Answer - page 37

SEE

Good experienced riders remain aware of what is going on around them. They improve their riding strategy by using SEE, a three-step process used to make appropriate judgments, and apply them correctly in different traffic situations:

- **Search**
- **Evaluate**
- **Execute**

Let's examine each of these steps.

SEARCH

Search aggressively ahead, to the sides and behind to avoid potential hazards even before they arise. How assertively you search, and how much time and space you have, can eliminate or reduce harm. Focus even more on finding potential escape routes in or around intersections, shopping areas and school and construction zones.

Search for factors such as:

- **Oncoming traffic** that may turn left in front of you.
- **Traffic** coming from the left and right.
- **Traffic** approaching from behind.
- **Hazardous** road conditions.

Be especially alert in areas with limited visibility. Visually “busy” surroundings could hide you and your motorcycle from others.

EVALUATE

Think about how hazards can interact to create risk for you. Anticipate potential problems and have a plan to reduce risk.

- **Road and surface characteristics** — Potholes, guardrails, bridges, telephone poles and trees won't move into your path but may influence your riding strategy.
- **Traffic control devices** — Look for traffic signals, including regulatory signs, warning signs, and pavement markings, to help you evaluate circumstances ahead.
- **Vehicles and other traffic** — May move into your path and increase the likelihood of a crash.

Think about your time and space requirements in order to maintain a margin of safety. You must leave yourself time to react if an emergency arises.

EXECUTE

Carry out your decision.

To create more space and minimize harm from any hazard:

- **Communicate** your presence with lights and/or horn.
- **Adjust your speed** by accelerating, stopping or slowing.
- **Adjust your position** and/or direction.

Apply the old adage “one step at a time” to handle two or more hazards. Adjust speed to permit two hazards to separate. Then deal with them one at a time as single hazards. Decision making becomes more complex with three or more hazards. Weigh the consequences of each and give equal distance to the hazards.

In potential high-risk areas, such as intersections, shopping areas and school and construction zones, cover the clutch and both brakes to reduce the time you need to react.

5

Test Yourself

To reduce your reaction time, you should:

- A. Ride slower than the speed limit.
- B. Cover the clutch and the brakes.
- C. Shift into neutral when slowing.
- D. Pull in the clutch when turning.

Answer - page 37

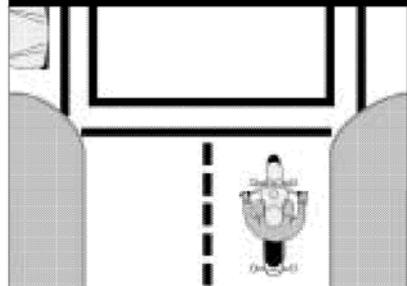
INTERSECTIONS

The greatest potential for conflict between you and other traffic is at intersections. An intersection can be in the middle of an urban area or at a driveway on a residential street—anywhere traffic may cross your path of travel. Over one-half of motorcycle/car crashes are caused by drivers entering a rider's right-of-way. Cars that turn left in front of you, including cars turning left from the lane to your right, and cars on side streets that pull into your lane, are the biggest dangers. Your use of SEE [p. 17] at intersections is critical.

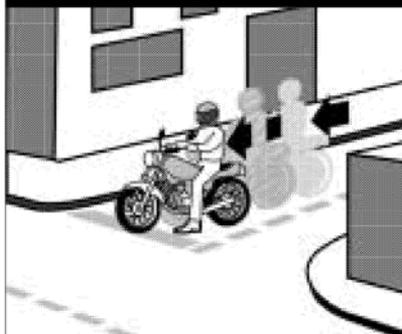
There are no guarantees that others see you. Never count on "eye contact" as a sign that a driver will yield. Too often, a driver looks right at a motorcyclist and still fails to "see" him. The only eyes that you can count on are your own. If a car can enter your path, assume that it will. Good riders are always "looking for trouble"—not to get into it, but to stay out of it.

Increase your chances of being seen at intersections. Ride with your headlight on in a lane position that provides the best view of oncoming traffic. Provide a space cushion around the motorcycle that permits you to take evasive action.

SMALL INTERSECTIONS



STOP SIGNS



If you have a stop sign or stop line, stop there first. Then edge forward and stop again, just short of where the cross-traffic lane meets your lane. From that position, lean your body forward and look around buildings, parked cars or bushes to see if anything is coming. Just make sure your front wheel stays out of the cross lane of travel while you're looking.

PASSING PARKED CARS

When passing parked cars, stay toward the left of your lane. You can avoid problems caused by doors opening, drivers getting out of cars or people stepping from between cars. If oncoming traffic is present, it is usually best to remain in the center-lane position to maximize your space cushion.

A bigger problem can occur if the driver pulls away from the curb without checking for traffic behind. Even if he does look, he may fail to see you.

6

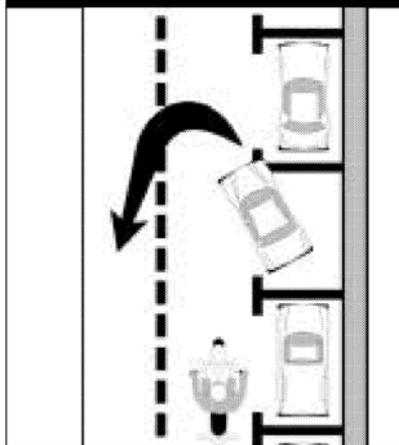
Test Yourself

Making eye contact with other drivers:

- A. Is a good sign they see you.
- B. Is not worth the effort it takes.
- C. Doesn't mean that the driver will yield.
- D. Guarantees that the other driver will yield to you.

Answer - page 37

PARKED CARS



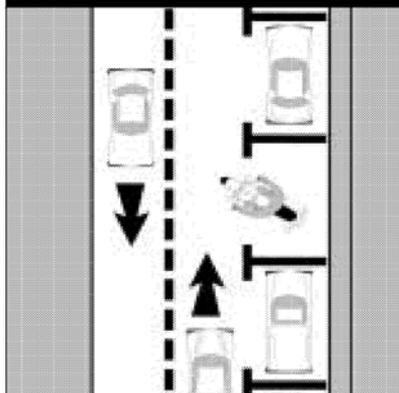
In either event, the driver might cut into your path. Slow down or change lanes to make room for someone cutting in.

Cars making a sudden U-turn are the most dangerous. They may cut you off entirely, blocking the whole roadway and leaving you with no place to go. Since you can't tell what a driver will do, slow down and get the driver's attention. Sound your horn and continue with caution.

PARKING AT THE ROADSIDE

Park at a 90° angle to the curb with your rear wheel touching the curb.

PARKING AT CURBS



INCREASING CONSPICUITY

In crashes with motorcyclists, drivers often say that they never saw the motorcycle. From ahead or behind, a motorcycle's outline is much smaller than a car's. Also, it's hard to see something you are not looking for, and most drivers are not looking for motorcycles. More likely, they are looking *through* the skinny, two-wheeled silhouette in search of cars that may pose a problem to them.

Even if a driver does see you coming, you aren't necessarily safe. Smaller vehicles appear farther away and seem to be traveling slower than they actually are. It is common for drivers to pull out in front of motorcyclists, thinking they have plenty of time. Too often, they are wrong.

However, you can do many things to make it easier for others to recognize you and your cycle.

CLOTHING

Most crashes occur in broad daylight. Wear bright-colored clothing to increase your chances of being seen. Remember, your body is half of the visible surface area of the rider/motorcycle unit.

Bright orange, red, yellow or green jackets or vests are your best bets for being seen. Your helmet can do more than protect you in a crash. Brightly colored helmets can also help others see you.

Any bright color is better than drab or dark colors. Reflective, bright-colored clothing (helmet and jacket or vest) is best.

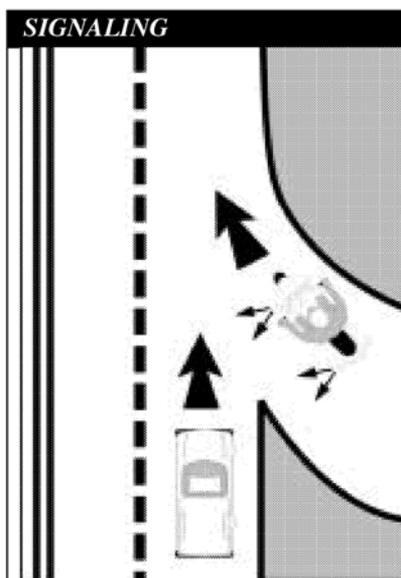
Reflective material on a vest and on the sides of the helmet will help drivers coming from the side to spot you. Reflective material can also be a big help for drivers coming toward you or from behind.

HEADLIGHT

The best way to help others see your motorcycle is to keep the headlight on — **at all times** (although motorcycles sold in the USA since 1978 automatically have the headlights on when running). Studies show that, during the day, a motorcycle with its light on is twice as likely to be noticed. Use of the high beam during the day increases the likelihood that oncoming drivers will see you. Use low beam at night and in cloudy weather.

SIGNALS

The signals on a motorcycle are similar to those on a car. They tell others what you plan to do.



However, due to a rider's added vulnerability, signals are even more important. Use them anytime you plan to change lanes or turn. Use them even when you think no one else is around. It's the car you don't see that's going to give you the most trouble. Your signal lights also make you easier to spot. That's why it's a good idea to use your turn signals even when what you plan to do is obvious.

When you enter onto a freeway, drivers approaching from behind are more likely to see your signal blinking and make room for you.

Turning your signal light on before each turn reduces confusion and frustration for the traffic around you. Once you turn, make sure your signal is off or a driver may pull directly into your path, thinking you plan to turn again. Use your signals at every turn so drivers can react accordingly. Don't make them guess what you intend to do.

BRAKE LIGHT

Your motorcycle's brake light is usually not as noticeable as the brake lights on a car—particularly when your taillight is on. (It goes on with the headlight.) If the situation will permit, help others notice you by flashing your brake light before you slow down. It is especially important to flash your brake light before:

- **You slow more quickly** than others might expect (turning off a high-speed highway).

- **You slow where** others may not expect it (in the middle of a block or at an alley).

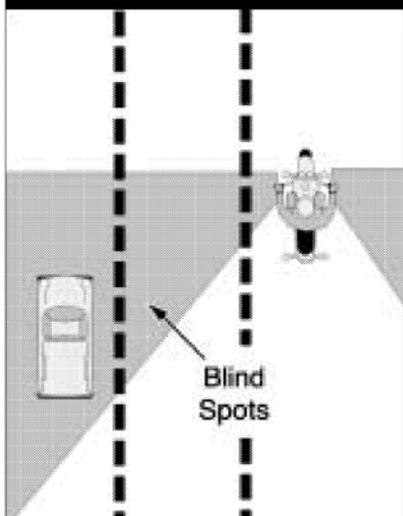
If you are being followed closely, it's a good idea to flash your brake light before you slow. The tailgater may be watching you and not see something ahead that will make you slow down. This will hopefully discourage them from tailgating and warn them of hazards ahead they may not see.

USING YOUR MIRRORS

While it's most important to keep track of what's happening ahead, you can't afford to ignore situations behind. Traffic conditions change quickly. Knowing what's going on behind is essential for you to make a safe decision about how to handle trouble ahead.

Frequent mirror checks should be part of your normal searching routine. Make a special point of using your mirrors:

- **When you are stopped** at an intersection. Watch cars coming up from behind. If the driver isn't paying attention, he could be on top of you before he sees you.
- **Before you change lanes.** Make sure no one is about to pass you.
- **Before you slow down.** The driver behind may not expect you to slow, or may be unsure about where you will slow. For example, you signal a turn and the driver thinks you plan to turn at a distant intersection, rather than at a nearer driveway.

USING MIRRORS

Some motorcycles have rounded (convex) mirrors. These provide a wider view of the road behind than do flat mirrors. They also make cars seem farther away than they really are. If you are not used to convex mirrors, get familiar with them. *(While you are stopped, pick out a parked car in your mirror. Form a mental image of how far away it is. Then, turn around and look at it to see how close you came.)* Practice with your mirrors until you become a good judge of distance. Even then, allow extra distance before you change lanes.

HEAD CHECKS

Checking your mirrors is not enough. Motorcycles have “blind spots” like cars. Before you change lanes, turn your head, and look to the side for other vehicles.

On a road with several lanes, check the far lane and the one next to you. A driver in the distant lane may head for the same space you plan to take.

Frequent head checks should be your normal scanning routine, also. Only by knowing what is happening **all around** you are you fully prepared to deal with it.

HORN

Be ready to use your horn to get someone’s attention quickly.

It is a good idea to give a quick beep before passing anyone that may move into your lane.

Here are some situations:

- **A driver** in the lane next to you is driving too closely to the vehicle ahead and may want to pass.
- **A parked car** has someone in the driver’s seat.
- **Someone is in the street**, riding a bicycle or walking.

In an emergency, press the horn button loud and long. Be ready to stop or swerve away from the danger.

Keep in mind that a motorcycle’s horn isn’t as loud as a car’s — therefore, use it, but don’t rely on it. Other strategies may be appropriate along with the horn.

RIDING AT NIGHT

At night it is harder for you to see and be seen. Picking your headlight or taillight out of the car lights around you is not easy for other drivers. To compensate, you should:

- **Reduce Your Speed** — Ride even slower than you would during the day — particularly on roads you don't know well. This will increase your chances of avoiding a hazard.
- **Increase Distance** — Distances are harder to judge at night than during the day. Your eyes rely upon shadows and light contrasts to determine how far away an object is and how fast it is coming. These contrasts are missing or distorted under artificial lights at night. Open up a three-second following distance or more. And allow more distance to pass and be passed.
- **Use the Car Ahead** — The headlights of the car ahead can give you a better view of the road than even your high beam can. Taillights bouncing up and down can alert you to bumps or rough pavement.
- **Use Your High Beam** — Get all the light you can. Use your high beam whenever you are not following or meeting a car. Be visible: Wear reflective materials when riding at night.
- **Be Flexible About Lane Position.** Change to whatever portion of the lane is best able to help you see, be seen and keep an adequate space cushion.

7

Test Yourself

Reflective clothing should:

- Be worn at night.
- Be worn during the day.
- Not be worn.
- Be worn day and night

Answer - page 37

CRASH AVOIDANCE

No matter how careful you are, there will be times when you find yourself in a tight spot. Your chances of getting out safely depend on your ability to react quickly and properly. Often, a crash occurs because a rider is not prepared or skilled in crash-avoidance maneuvers.

Know when and how to stop or swerve, two skills critical to avoiding a crash. It is not always desirable or possible to stop quickly to avoid an obstacle. Riders must also be able to swerve around an obstacle.

Determining the skill necessary for the situation is important as well.

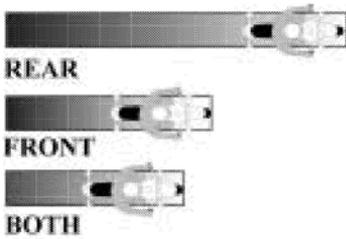
Studies show that most crash-involved riders:

- **Underbrake** the front tire and overbrake the rear.
- **Did not** separate braking from swerving or did not choose swerving when it was appropriate.

The following information offers some good advice.

QUICK STOPS

To stop quickly, apply both brakes at the same time. Don't be shy about using the front brake, but don't "grab" it, either. Squeeze the brake lever firmly and progressively. If the front wheel locks, release the front brake immediately then reapply it firmly. At the same time, press down on the rear brake. If you accidentally lock the rear brake on a good traction surface, keep it locked until you have completely stopped. Even with a locked rear wheel, you can control the motorcycle on a straightaway *if it is upright and going in a straight line.*

STOPPING DISTANCE

Always use both brakes at the same time to stop. The front brake can provide 70% or more of the potential stopping power.

If you must stop quickly *while turning or riding a curve*, the best technique is to straighten the bike upright first and then brake. However, it may not always be possible to straighten the motorcycle and then stop. If you must brake while leaning, apply light brakes and reduce the throttle. As you slow, you can reduce your lean angle and apply more brake pressure until the motorcycle is straight and maximum brake pressure is possible. You should “straighten” the handlebars

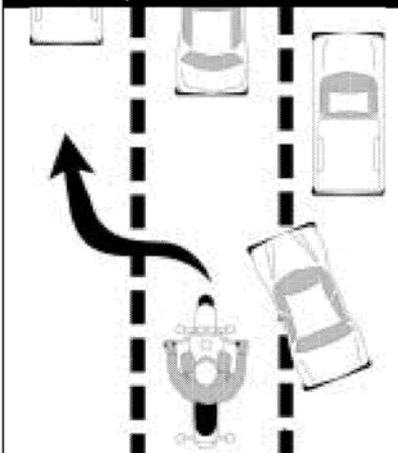
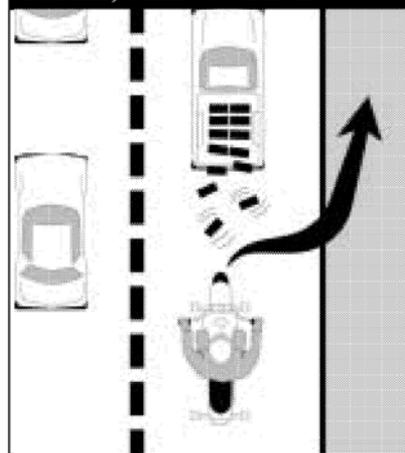
in the last few feet of stopping. The motorcycle should then be straight up and in balance.

SWERVING OR TURNING QUICKLY

Sometimes you may not have enough room to stop, even if you use both brakes properly. An object might appear suddenly in your path. Or the car ahead might squeal to a stop. The only way to avoid a crash may be to turn quickly, or swerve around it.

A swerve is any sudden change in direction. It can be two quick turns, or a rapid shift to the side. Apply a small amount of hand pressure to the handlegrip located on the side of your intended direction of escape. This will cause the motorcycle to lean quickly. The sharper the turn(s), the more the motorcycle must lean.

Keep your body upright and allow the motorcycle to lean in the direction of the turn while keeping your knees against the tank and your

SWERVE, THEN BRAKE**BRAKE, THEN SWERVE**

feet solidly on the pegs. Let the motorcycle move underneath you. Make your escape route the target of your vision. Press on the opposite handlegrip once you clear the obstacle to return you to your original direction of travel. To swerve to the left, press the left handlegrip, then press the right to recover. To swerve to the right, press right, then left.

IF BRAKING IS REQUIRED, SEPARATE IT FROM SWERVING. Brake before or after — never while swerving.

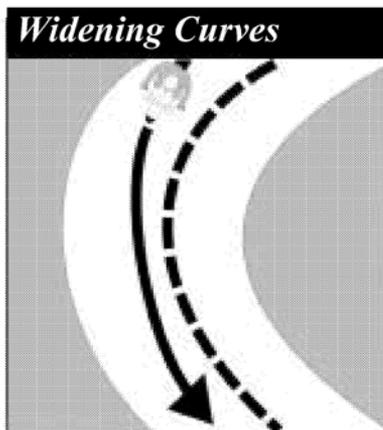
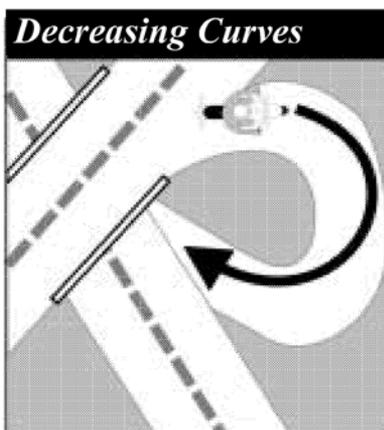
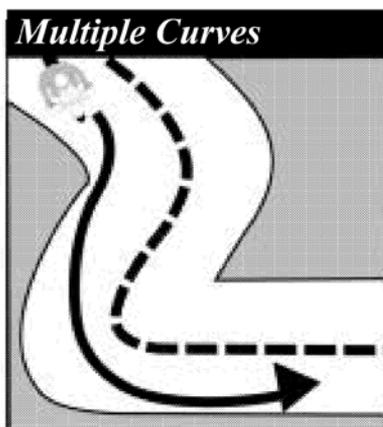
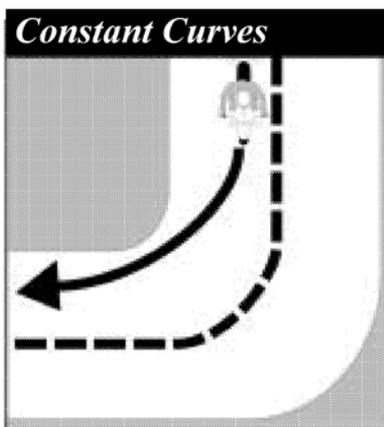
CORNERING

A primary cause of single-vehicle crashes is motorcyclists running wide in a curve or turn and colliding with the roadway or a fixed object.

Every curve is different. Be alert to whether a curve remains constant, gradually widens, gets tighter or involves multiple turns.

Ride within your skill level and posted speed limits.

Your best path may not always follow the curve of the road.



Change lane position depending on traffic, road conditions and curve of the road. If no traffic is present, start at the outside of a curve to increase your line of sight and the effective radius of the turn. As you turn, move toward the inside of the curve, and as you pass the center, move to the outside to exit.

Another alternative is to move to the center of your lane before entering a curve — and stay there until you exit. This permits you to spot approaching traffic as soon as possible. You can also adjust for traffic “crowding” the center line, or debris blocking part of your lane.

8

Test Yourself

The best way to stop quickly is to:

- A. Use the front brake only.
- B. Use the rear brake first.
- C. Throttle down and use the front brake.
- D. Use both brakes at the same time.

Answer - page 37

HANDLING DANGEROUS SURFACES

Your chance of falling or being involved in a crash increases whenever you ride across:

- **Uneven surfaces or obstacles.**
- **Slippery surfaces.**
- **Railroad tracks.**
- **Grooves and gratings.**

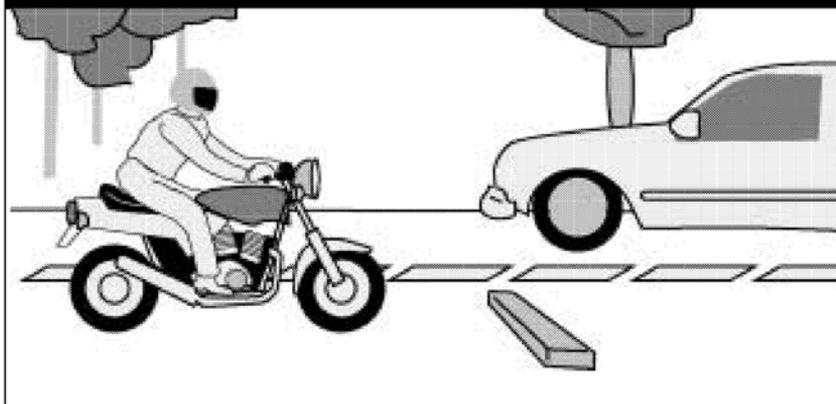
UNEVEN SURFACES AND OBSTACLES

Watch for uneven surfaces such as bumps, broken pavement, potholes or small pieces of highway trash.

Try to avoid obstacles by slowing or going around them. If you must go over the obstacle, first determine if it is possible. Approach it at as close to a 90° angle as possible. Look where you want to go to control your path of travel. If you have to ride over the obstacle, you should:

- **Slow down** as much as possible before contact.
- **Make sure** the motorcycle is straight.

OBSTACLES



-
- **Rise slightly** off the seat with your weight on the footpegs to absorb the shock with your knees and elbows, and avoid being thrown off the motorcycle.
 - **Just before contact**, roll on the throttle slightly to lighten the front end.

If you ride over an object on the street, pull off the road and check your tires and rims for damage before riding any farther.

SLIPPERY SURFACES

Motorcycles handle better when ridden on surfaces that permit good traction. Surfaces that provide poor traction include:

- **Wet pavement**, particularly just after it starts to rain and before surface oil washes to the side of the road.
- **Gravel roads**, or where sand and gravel collect.
- **Mud, snow, and ice.**
- **Lane markings**, steel plates and manhole covers, especially when wet.

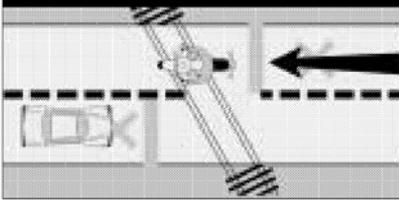
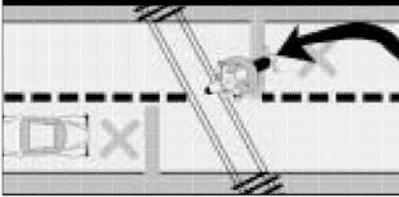
To ride safely on slippery surfaces:

- **Reduce Speed** — Slow down before you get to a slippery surface to lessen your chances of skidding. Your motorcycle needs more distance to stop. And it is particularly important to reduce speed before entering wet curves.
- **Avoid Sudden Moves** — Any sudden change in speed or direction can cause a skid. Be as smooth as possible when you speed up, shift gears, turn or brake.
- **Use Both Brakes** — The front brake is still effective, even on a slippery surface. Squeeze the

brake lever gradually to avoid locking the front wheel. Remember, gentle pressure on the rear brake.

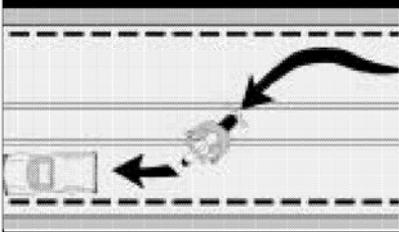
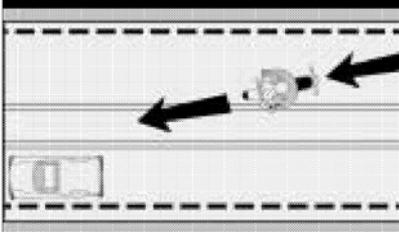
- **The center of a lane** can be hazardous when wet. When it starts to rain, ride in the tire tracks left by cars. Often, the left tire track will be the best position, depending on traffic and other road conditions as well.
- **Watch for oil spots** when you put your foot down to stop or park. You may slip and fall.
- **Dirt and gravel** collect along the sides of the road — especially on curves and ramps leading to and from highways. Be aware of what's on the edge of the road, particularly when making sharp turns and getting on or off freeways at high speeds.
- **Rain dries and snow melts faster** on some sections of a road than on others. Patches of ice tend to crop up in low or shaded areas and on bridges and overpasses. Wet surfaces or wet leaves are just as slippery. Ride on the least slippery portion of the lane and reduce speed.

Cautious riders steer clear of roads covered with ice or snow. If you can't avoid a slippery surface, keep your motorcycle straight up and proceed as *slowly* as possible. If you encounter a large surface so slippery that you must coast, or travel at a walking pace, consider letting your feet skim along the surface. If the motorcycle starts to fall, you can catch yourself. Be sure to keep off the brakes. If possible, squeeze the clutch and coast. Attempting this maneuver at anything other than the slowest of speeds could prove hazardous.

CROSSTRACKS-RIGHT**CROSSTRACKS-WRONG****RAILROAD TRACKS, TROLLEY TRACKS AND PAVEMENT SEAMS**

Usually it is safer to ride straight within your lane to cross tracks. Turning to take tracks head-on (at a 90° angle) can be more dangerous — your path may carry you into another lane of traffic.

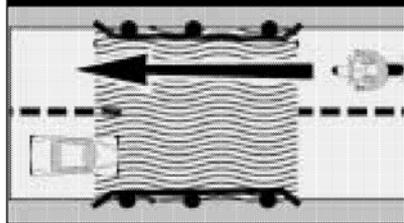
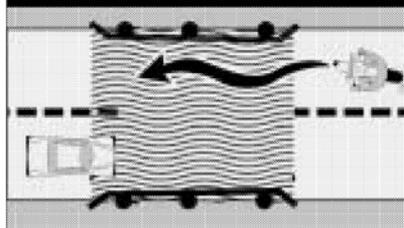
For track and road seams that run parallel to your course, move far

PARALLEL TRACKS-RIGHT**PARALLEL TRACKS-WRONG**

enough away from tracks, ruts, or pavement seams to cross at an angle of at least 45°. Then, make a quick, sharp turn. Edging across could catch your tires and throw you off balance.

GROOVES AND GRATINGS

Riding over rain grooves or bridge gratings may cause a motorcycle to weave. The uneasy, wandering feeling is generally not hazardous. Relax, maintain a steady speed and ride straight across. Crossing at an angle forces riders to zigzag to stay in the lane. The zigzag is far more hazardous than the wandering feeling.

GRATE CROSSINGS-RIGHT**GRATE CROSSINGS-WRONG****9****Test Yourself**

When it starts to rain it is usually best to:

- A. Ride in the center of the lane.
- B. Pull off to the side until the rain stops.
- C. Ride in the tire tracks left by cars.
- D. Increase your speed.

Answer - page 37

MECHANICAL PROBLEMS

You can find yourself in an emergency the moment something goes wrong with your motorcycle. In dealing with any mechanical problem, take into account the road and traffic conditions you face. Here are some guidelines that can help you handle mechanical problems safely.

TIRE FAILURE

You will seldom hear a tire go flat. If the motorcycle starts handling differently, it may be a tire failure. This can be dangerous. You must be able to tell from the way the motorcycle reacts. If one of your tires suddenly loses air, react quickly to keep your balance. Pull off and check the tires.

If the front tire goes flat, the steering will feel “heavy.” A front-wheel flat is particularly hazardous because it affects your steering. You have to steer well to keep your balance.

If the rear tire goes flat, the back of the motorcycle may jerk or sway from side to side.

If either tire goes flat while riding:

- **Hold handlegrips** firmly, ease off the throttle, and keep a straight course.
- **If braking is required**, however, gradually apply the brake of the tire that isn’t flat, if you are sure which one it is.
- **When the motorcycle slows**, edge to the side of the road, squeeze the clutch and stop.

STUCK THROTTLE

Twist the throttle back and forth several times. If the throttle cable is stuck, this may free it. If the throttle stays stuck immediately operate the engine cut-off switch and pull in the clutch at the same time. This will remove power from the rear wheel, though engine noise may not immediately decline. Once the motorcycle is “under control,” pull off and stop.

After you have stopped, check the throttle cable carefully to find the source of the trouble. Make certain the throttle works freely before you start to ride again.

WOBBLE

A “wobble” occurs when the front wheel and handlebars suddenly start to shake from side to side at any speed. Most wobbles can be traced to improper loading, unsuitable accessories or incorrect tire pressure. If you are carrying a heavy load, lighten it. If you can’t, shift it. Center the weight lower and farther forward on the motorcycle. Make sure tire pressure, spring pre-load, air shocks and dampers are at the settings recommended for that much weight. Make sure windshields and fairings are mounted properly.

Check for poorly adjusted steering; worn steering parts; a front wheel that is bent, misaligned, or out of balance; loose wheel bearings or spokes; and swingarm bearings. If none of these are determined to be the cause, have the motorcycle checked out thoroughly by a qualified professional.

Trying to “accelerate out of a wobble” will only make the motorcycle more unstable. Instead:

- **Grip the handlebars firmly**, but don’t fight the wobble.
- **Close the throttle gradually** to slow down. Do not apply the brakes; braking could make the wobble worse.
- **Move your weight** as far forward and down as possible.
- **Pull off the road** as soon as you can to fix the problem.

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Test Yourself

If your motorcycle starts to wobble:

- A. Accelerate out of the wobble.
- B. Use the brakes gradually.
- C. Grip the handlebars firmly and close the throttle gradually.
- D. Downshift.

Answer - page 37

CHAIN PROBLEMS

A chain that slips or breaks while you’re riding could lock the rear wheel and cause your cycle to skid. Chain slippage or breakage can be avoided by proper maintenance.

- **Slippage** — If the chain slips when you try to speed up quickly or ride uphill, pull off the road. Check the chain and sprockets. Tightening the chain may help. If the problem is a worn or stretched chain or worn or bent sprockets, replace the chain, the sprockets or both before riding again.
- **Breakage** — You’ll notice an instant loss of power to the rear wheel. Close the throttle and brake to a stop.

ENGINE SEIZURE

When the engine “locks” or “freezes” it is usually low on oil. The engine’s moving parts can’t move smoothly against each other, and the engine overheats. The first sign may be a loss of engine power or a change in the engine’s sound. Squeeze the clutch lever to disengage the engine from the rear wheel. Pull off the road and stop. Check the oil. If needed, oil should be added as soon as possible or the engine will seize. When this happens, the effect is the same as a locked rear wheel. Let the engine cool before restarting.

ANIMALS

Naturally, you should do everything you safely can to avoid hitting an animal. If you are in traffic, however, remain in your lane. Hitting something small is less dangerous to you than hitting something big — like a car.

Motorcycles seem to attract dogs. If you are chased, downshift and approach the animal slowly. As you approach it, accelerate away and leave the animal behind. Don’t kick at an animal. Keep control of your motorcycle and look to where you want to go.

For larger animals (deer, elk, cattle) brake and prepare to stop — they are unpredictable.

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Test Yourself

If you are chased by a dog:

- A. Kick it away.
- B. Stop until the animal loses interest.
- C. Swerve around the animal.
- D. Approach the animal slowly, then speed up.

Answer - page 37

FLYING OBJECTS

From time to time riders are struck by insects, cigarettes thrown from cars or pebbles kicked up by the tires of the vehicle ahead. If you are wearing face protection, it might get smeared or cracked, making it difficult to see. Without face protection, an object could hit you in the eye, face or mouth. Whatever happens, keep your eyes on the road and your hands on the handlebars. When safe, pull off the road and repair the damage.

GETTING OFF THE ROAD

If you need to leave the road to check the motorcycle (or just to rest for a while), be sure you:

- **Check the roadside** — Make sure the surface of the roadside is firm enough to ride on. If it is soft grass, loose sand or if you're just not sure about it, slow way down before you turn onto it.
- **Signal** — Drivers behind might not expect you to slow down. Give a clear signal that you will be slowing down and changing direction. Check your mirror and make a head check before you take any action.
- **Pull off the road** — Get as far off the road as you can. It can be very hard to spot a motorcycle by the side of the road. You don't want someone else pulling off at the same place you are.
- **Park carefully** — Loose and sloped shoulders can make setting the side or center stand difficult.

CARRYING PASSENGERS AND CARGO

Only experienced riders should carry passengers or large loads. The extra weight changes the way the motorcycle handles, balances, speeds up and slows down. Before taking a passenger or a heavy load on the street, practice away from traffic.

EQUIPMENT

To carry passengers safely:

- **Equip and adjust** your motorcycle to carry passengers.
- **Instruct the passenger** before you start.
- **Adjust your riding** technique for the added weight.

Equipment should include:

- **A proper seat** — large enough to hold both of you without crowding. You should not sit any farther forward than you usually do.
- **Footpegs** — for the passenger. Firm footing prevents your passenger from falling off and pulling you off, too.
- **Protective equipment** — the same protective gear recommended for operators.

Adjust the suspension to handle the additional weight. You will probably need to add a few pounds of pressure to the tires if you carry a passenger. (Check your owner's manual for appropriate settings.) While your passenger sits on the seat with you, adjust the mirror and headlight according to the change in the motorcycle's angle.

INSTRUCTING PASSENGERS

Even if your passenger is a motorcycle rider, provide complete instructions before you start. Tell your passenger to:

- **Get on** the motorcycle only after you have started the engine.
- **Sit as far forward** as possible without crowding you.
- **Hold firmly** to your waist, hips or belt.
- **Keep both feet** on the pegs, even when stopped.
- **Keep legs away** from the muffler(s), chains or moving parts.
- **Stay directly behind you**, leaning as you lean.
- **Avoid unnecessary** talk or motion.

Also, tell your passenger to tighten his or her hold when you:

- **Approach** surface problems.
- **Are about to start** from a stop.
- **Warn that you** will make a sudden move.

RIDING WITH PASSENGERS

Your motorcycle will respond more slowly with a passenger on board. The heavier your passenger, the longer it will take to slow down and speed up — especially on a light motorcycle.

- **Ride a little slower**, especially when taking curves, corners or bumps.
- **Start slowing earlier** as you approach a stop.
- **Open up a larger cushion** of space ahead and to the sides.
- **Wait for larger gaps** to cross, enter or merge in traffic.

Warn your passenger of special conditions — when you will pull out, stop quickly, turn sharply or ride over a bump. Turn your head slightly to make yourself understood, but keep your eyes on the road ahead.

CARRYING LOADS

Most motorcycles are not designed to carry much cargo. Small loads can be carried safely if positioned and fastened properly.

- **Keep the Load Low** — Fasten loads securely, or put them in saddlebags. Piling loads against a sissybar or frame on the back of the seat raises the motorcycle's center of gravity and disturbs its balance.
- **Keep the Load Forward** — Place the load over, or in front of, the rear axle. Tankbags keep loads forward, but use caution when loading hard or sharp objects. Make sure the tankbag does not interfere with handlebars or controls. Mounting loads behind the rear axle can affect how the motorcycle turns and brakes. It can also cause a wobble.
- **Distribute the Load Evenly** — Load saddlebags with about the same weight. An uneven load can cause the motorcycle to drift to one side.

12

Test Yourself

Passengers should:

- Lean as you lean.
- Hold on to the motorcycle seat.
- Sit as far back as possible.
- Never hold onto you.

Answer - page 37

- **Secure the Load** — Fasten the load securely with elastic cords (bungee cords or nets). Elastic cords with more than one attachment point per side are more secure. A tight load won't catch in the wheel or chain, causing it to lock up and skid. Rope tends to stretch and knots come loose, permitting the load to shift or fall.
- **Check the Load** — Stop and check the load every so often to make sure it has not worked loose or moved.

GROUP RIDING

If you ride with others, do it in a way that promotes safety and doesn't interfere with the flow of traffic.

KEEP THE GROUP SMALL

Small groups make it easier and safer for car drivers who need to get around them. A small number isn't separated as easily by traffic or red lights. Riders won't always be hurrying to catch up. If your group is larger than four or five riders, divide it up into two or more smaller groups.

KEEP THE GROUP TOGETHER

- **Plan** — The leader should look ahead for changes and signal early so "the word gets back" in plenty of time. Start lane changes early to permit everyone to complete the change.
- **Put Beginners Up Front** — Place inexperienced riders just behind the leader. That way the more experienced riders can watch them from the back.
- **Follow Those Behind** — Let the tailender set the pace. Use your mirrors to keep an eye on the person behind. If a rider falls behind, everyone should slow

down a little to stay with the tailender.

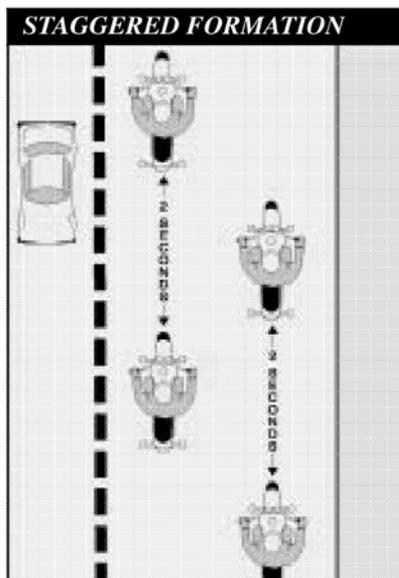
- **Know the Route** — Make sure everyone knows the route. Then, if someone is separated they won't have to hurry to keep from getting lost or taking a wrong turn. Plan frequent stops on long rides.

KEEP YOUR DISTANCE

Maintain close ranks but at the same time keep a safe distance to allow each rider in the group time and space to react to hazards. A close group takes up less space on the highway, is easier to see and is less likely to be separated. However, it must be done properly.

Don't Pair Up — Never operate directly alongside another rider. There is no place to go if you have to avoid a car or something on the road. To talk, wait until you are both stopped.

Staggered Formation — This is the best way to keep ranks close yet maintain an adequate space



cushion. The leader rides in the left side of the lane, while the second rider stays one second behind in the right side of the lane.

A third rider maintains in the left position, two seconds behind the first rider. The fourth rider would keep a two-second distance behind the second rider. This formation keeps the group close and permits each rider a safe distance from others ahead, behind and to the sides.

- **Passing in Formation** — Riders in a staggered formation should pass one at a time.
- **First, the lead rider should pull out** and pass when it is safe. After passing, the leader should return to the left position and continue riding at passing speed to open room for the next rider.
- **After the first rider passes safely**, the second rider should move up to the left position and watch for a safe chance to pass. After passing, this rider should return to the right position and

open up room for the next rider.

Some people suggest that the leader should move to the right side after passing a vehicle. This is not a good idea. It encourages the second rider to pass and cut back in before there is a large enough space cushion in front of the passed vehicle. It's simpler and safer to wait until there is enough room ahead of the passed vehicle to allow each rider to move into the same position held before the pass.

Single-File Formation — It is best to move into a single-file formation when riding curves, turning, entering or leaving a highway.

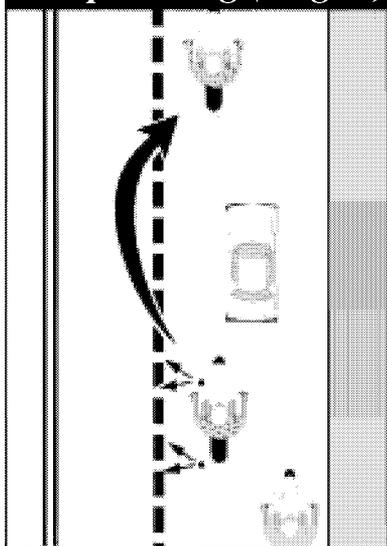
13 *Test Yourself*

When riding in a group, inexperienced riders should position themselves:

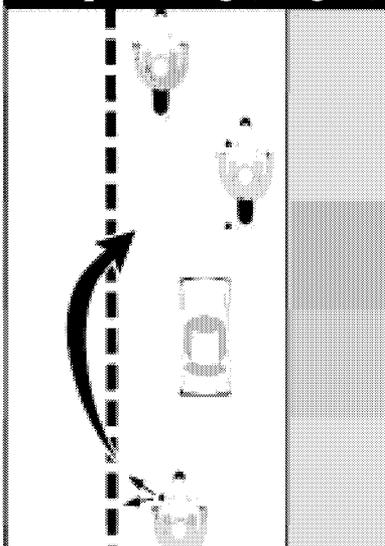
- A. Just behind the leader.
- B. In front of the group.
- C. At the tail end of the group.
- D. Beside the leader.

Answer - page 37

Group Passing (Stage 1)



Group Passing (Stage 2)



BEING IN SHAPE TO RIDE

Riding a motorcycle is a demanding and complex task. Skilled riders pay attention to the riding environment and to operating the motorcycle, identifying potential hazards, making good judgments and executing decisions quickly and skillfully. Your ability to perform and respond to changing road and traffic conditions is influenced by how fit and alert you are. Alcohol and other drugs, more than any other factor, degrade your ability to think clearly and to ride safely. As little as one drink can have a significant effect on your performance.

Let's look at the risks involved in riding after drinking or using drugs. What to do to protect yourself and your fellow riders is also examined.

WHY THIS INFORMATION IS IMPORTANT

Alcohol is a major contributor to motorcycle crashes, particularly fatal crashes. Studies show that 40% to 45% of all riders killed in motorcycle crashes had been drinking. Only one-third of those riders had a blood alcohol concentration above legal limits. The rest had only a few drinks in their systems—enough to impair riding skills. In the past, drug levels have been harder to distinguish or have not been separated from drinking violations for the traffic records. But riding “under the influence” of either alcohol or drugs poses physical and legal hazards for every rider.

Drinking and drug use is as big a problem among motorcyclists as it is among automobile drivers. Motorcyclists, however, are more likely to be killed or severely injured in a crash. Injuries occur in 90% of motorcycle crashes and 33% of automobile crashes that involve abuse of substances. On a yearly basis, 2,100 motorcyclists are killed and about 50,000 seriously injured in this same type of crash. These statistics are too overwhelming to ignore.

By becoming knowledgeable about the effects of alcohol and other drugs you will see that riding and substance abuse don't mix. Take positive steps to protect yourself and prevent others from injuring themselves.

ALCOHOL AND OTHER DRUGS IN MOTORCYCLE OPERATION

No one is immune to the effects of alcohol or drugs. Friends may brag about their ability to hold their liquor or perform better on drugs, but alcohol or drugs make them less able to think clearly and perform physical tasks skillfully. Judgment and the decision-making processes needed for vehicle operation are affected long before legal limitations are reached.

Many over-the-counter, prescription and illegal drugs have side effects that increase the risk of riding. It is difficult to accurately measure the involvement of particular drugs in motorcycle crashes. But we do know what effects various drugs have on the process involved in riding a motorcycle. We also know that the combined effects of alcohol and other drugs are more dangerous than either is alone.

ALCOHOL IN THE BODY

Alcohol enters the bloodstream quickly. Unlike most foods and beverages, it does not need to be digested. Within minutes after being consumed, it reaches the brain and begins to affect the drinker. The major effect alcohol has is to slow down and impair bodily functions — both mental and physical. Whatever you do, you do less well after consuming alcohol.

BLOOD ALCOHOL CONCENTRATION

Blood Alcohol Concentration or BAC is the amount of alcohol in relation to blood in the body. Generally, alcohol can be eliminated in the body at the rate of almost one drink per hour. But a variety of other factors may also influence the level of alcohol retained. The more alcohol in your blood, the greater the degree of impairment.

Three factors play a major part in determining BAC:

- **The amount** of alcohol you consume.
- **How fast** you drink.
- **Your body** weight.

Other factors also contribute to the way alcohol affects your system. Your sex, physical condition and food intake are just a few that may cause your BAC level to be even higher. But the full effects of these are not completely known. **Alcohol may still accumulate in your body even if you are drinking at a rate of one drink per hour.** Abilities and judgment can be affected by that one drink.

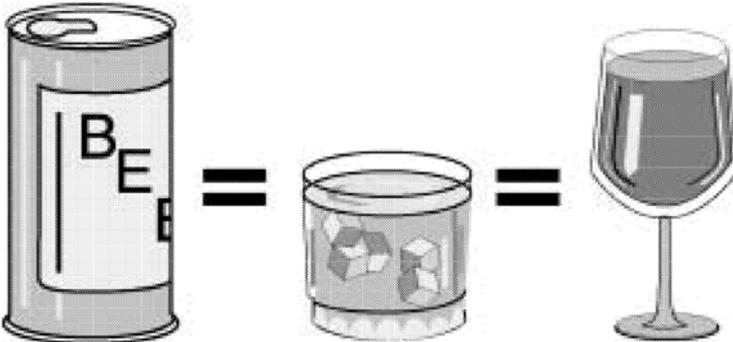
A 12-ounce can of beer, a mixed drink with one shot of liquor and a 5-ounce glass of wine all contain the same amount of alcohol.

The faster you drink, the more alcohol accumulates in your body. If you drink two drinks in an hour, at the end of that hour, at least one drink will remain in your bloodstream.

Without taking into account any of the other factors, the formula below illustrates the **LEAST** amount of drinks remaining in the bloodstream:

Total drinks consumed	<i>LESS</i>	# hours since last drink	<i>EQUALS</i>	drinks left in body
_____	-	_____	=	_____

ALCOHOL CONCENTRATION



A person drinking:

- **8 drinks in 4 hours** would have at least 4 drinks remaining in their system.
- **7 drinks in 3 hours** would have at least 4 drinks remaining in their system.

There are times when a larger person may not accumulate as high a concentration of alcohol for each drink consumed. They have more blood and other bodily fluids. But because of individual differences it is better not to take the chance that abilities and judgment have not been affected. Whether or not you are legally intoxicated is not the real issue. Impairment of judgment and skills begins well below the legal limit.

ALCOHOL AND THE LAW

In most states, a person with a BAC of .10% or above is considered intoxicated; in others the legal limit is .08% or .05%. It doesn't matter how sober you may look or act. The breath or urine test is what usually determines whether you are riding legally or illegally.

Your chances of being stopped for riding under the influence of alcohol are increasing. Law enforcement is being stepped up across the country in response to the senseless deaths and injuries caused by drinking drivers and riders.

CONSEQUENCES OF CONVICTION

Years ago, first offenders had a good chance of getting off with a small fine and participation in alcohol-abuse classes. Today the laws of most states impose stiff penalties on drinking operators. And those penalties are mandatory, meaning

that judges must impose them.

If you are convicted of riding under the influence of alcohol or drugs, you may receive any of the following penalties:

- **License Suspension** — Mandatory suspension for conviction, arrest or refusal to submit to a breath test.
- **Fines** — Severe fines are another aspect of a conviction, usually levied with a license suspension.
- **Community Service** — Performing tasks such as picking up litter along the highway, washing cars in the motor-vehicle pool or working at an emergency ward.
- **Costs** — Additional lawyer's fees to pay, lost work time spent in court or alcohol-education programs, public transportation costs (while your license is suspended) and the added psychological costs of being tagged a "drunk driver."

MINIMIZE THE RISKS

Your ability to judge how well you are riding is affected first. Although you may be performing more and more poorly, you think you are doing better and better. The result is that you ride confidently, taking greater and greater risks. Minimize the risks of drinking and riding by taking steps before you drink. Control your drinking or control your riding.

DON'T DRINK

Don't Drink — Once you start, your resistance becomes weaker.

Setting a limit or pacing yourself are poor alternatives at best. Your ability to exercise good judgment is

one of the first things affected by alcohol. Even if you have tried to drink in moderation, you may not realize to what extent your skills have suffered from alcohol's fatiguing effects.

Or Don't Ride — If you haven't controlled your drinking, you must control your riding.

- **Leave the motorcycle** — so you won't be tempted to ride. Arrange another way to get home.
- **Wait** — If you exceed your limit, wait until your system eliminates the alcohol and its fatiguing effects.

STEP IN TO PROTECT FRIENDS

People who have had too much to drink are unable to make a responsible decision. It is up to others to step in and keep them from taking too great a risk. No one wants to do this — it's uncomfortable, embarrassing and thankless. You are rarely thanked for your efforts at the time. But the alternatives are often worse.

There are several ways to keep friends from hurting themselves:

- **Arrange a safe ride** — Provide alternative ways for them to get home.
- **Slow the pace of drinking** — Involve them in other activities.
- **Keep them there** — Use any excuse to keep them from getting on their motorcycle. Serve them food and coffee to pass the time. Explain your concerns for their risks of getting arrested or hurt or hurting someone else.
- **Get friends involved** — Use peer pressure from a group of friends to intervene.

It helps to enlist support from others when you decide to step in. The more people on your side, the easier it is to be firm and the harder it is for the rider to resist. While you may not be thanked at the time, you will never have to say, "If only I had..."

FATIGUE

Riding a motorcycle is more tiring than driving a car. On a long trip, you'll tire sooner than you would in a car. Avoid riding when tired. Fatigue can affect your control of the motorcycle.

- **Protect yourself** from the elements — Wind, cold, and rain make you tire quickly. Dress warmly. A windshield is worth its cost if you plan to ride long distances.
- **Limit your distance** — Experienced riders seldom try to ride more than about six hours a day.
- **Take frequent rest breaks** — Stop and get off the motorcycle at least every two hours.
- **Don't drink or use drugs** — Artificial stimulants often result in extreme fatigue or depression when they start to wear off. Riders are unable to concentrate on the task at hand.

14

Test Yourself

If you wait an hour for each drink before riding:

- You cannot be arrested for drinking and riding.
- Your riding skills will not be affected.
- Side effects from the drinking may still remain.
- You will be okay as long as you ride slowly.

Answer - page 37

EARNING YOUR LICENSE

Safe riding requires knowledge and skill. Licensing tests are the best measurement of the skills necessary to operate safely in traffic. Assessing your own skills is not enough. People often overestimate their own abilities. It's even harder for friends and relatives to be totally honest about your skills. Licensing exams are designed to be scored more objectively.

To earn your license, you must pass a knowledge test and an on-cycle skill test. Knowledge test questions are based on information, practices and ideas from this manual. They require that you know and understand road rules and safe riding practices. An on-cycle skill test will either be conducted in an actual traffic environment or in a controlled, off-street area.

KNOWLEDGE TEST

(Sample Questions)

1. **It is MOST important to flash your brake light when:**

- A. Someone is following too closely.
- B. You will be slowing suddenly.
- C. There is a stop sign ahead.
- D. Your signals are not working.

2. **The FRONT brake supplies how much of the potential stopping power?**

- A. About one-quarter.
- B. About one-half.
- C. About three-quarters.
- D. All of the stopping power.

3. **To swerve correctly:**

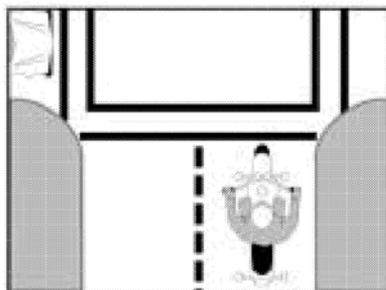
- A. Shift your weight quickly.
- B. Turn the handlebars quickly.
- C. Press the handlegrip in the direction of the turn.
- D. Press the handlegrip in the opposite direction of the turn.

4. **If a tire goes flat while riding and you must stop, it is usually best to:**

- A. Relax on the handlegrips.
- B. Shift your weight toward the good tire.
- C. Brake on the good tire and steer to the side of the road.
- D. Use both brakes and stop quickly.

5. **The car below is waiting to enter the intersection. It is best to:**

- A. Make eye contact with the driver.
- B. Reduce speed and be ready to react.
- C. Maintain speed and position.
- D. Maintain speed and move right.



Answers to Test Yourself (previous pages)

- 1-C, 2-D, 3-D, 4-A, 5-B,
6-C, 7-D 8-D, 9-C, 10-C,
11-D, 12-A, 13-A, 14-C

Answers to above Knowledge Test:

- 1-B, 2-C, 3-C, 4-C, 5-B

ON-CYCLE SKILL TEST

Basic vehicle control and crash-avoidance skills are included in on-cycle tests to determine your ability to handle normal and hazardous traffic situations.

You may be tested for your ability to:

- **Know your motorcycle** and your riding limits.
- **Accelerate, brake and turn safely.**
- **See, be seen** and communicate with others.
- **Adjust speed** and position to the traffic situation.

- **Stop, turn and swerve quickly.**
- **Make critical decisions** and carry them out.

Examiners may score on factors related to safety such as:

- **Selecting** safe speeds to perform maneuvers.
- **Choosing** the correct path and staying within boundaries.
- **Completing** normal and quick stops.
- **Completing** normal and quick turns or swerves.

To receive a motorcycle license with full privileges, most states require that maneuvers be performed as designed

On-cycle skill tests are not designed for sidecars or three-wheel vehicles. Those vehicles maneuver differently than a two-wheeled motorcycle. Depending on the state, a driver examiner may follow you on a car test-route. Restrictions (sidecar, three-wheeled vehicle) may be added until completion of a two-wheel cycle test.

Diagrams and drawings used in this manual are for reference only and are not to correct scale for size of vehicles and distances.

MOTORCYCLES MAKE SENSE – SO DOES PROFESSIONAL TRAINING

They are inexpensive to operate, fun to ride and easy to park. Unfortunately, many riders never learn the critical skills needed to ride safely.

Professional training for beginning and experienced riders prepares them for the real-world traffic situations.

Motorcycle Rider Courses teach and improve skills such as:

- effective turning
- obstacle avoidance
- braking maneuvers
- traffic strategies
- protective apparel selection
- maintenance

MOTORCYCLE RIDER COURSE

The Motorcycle Rider Course consists of 16 hours of instruction.

Anyone 14 years of age or older is eligible. Persons under 18 years of age must obtain written parental consent.

Upon successful completion of the course, you will receive a Course Completion Card which will serve as a waiver for the South Dakota Motorcycle License Tests (for one year after completion date).

The Course Completion Card may also qualify you for insurance discounts. What you save in insurance alone may pay for the cost of the course.

For more information call:

The South Dakota Safety Council at
338-0472 (Sioux Falls & vicinity) or
1-800-952-5539 (toll-free in South Dakota)

Department of Public Safety
Driver Licensing Program
118 W. Capitol Avenue
Pierre, SD 57501
1-800-952-3696
www.dps.sd.gov

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