

MOTORCYCLE



Edmund G. Brown Jr., Governor
State of California

Brian P. Kelly, Secretary
California State Transportation Agency

Jean Shiomoto, Director
California Department of Motor Vehicles

**PAGE LEFT
INTENTIONALLY
BLANK**

TABLE OF CONTENTS

NEW LAWS 2015	ii	<i>Being Followed</i>	18
DISCLAIMER	ii	<i>Passing and Being Passed</i>	19
WHERE TO WRITE	ii	<i>Passing</i>	19
DMV INFORMATION	iii	<i>Being Passed</i>	19
INTRODUCTION	1	<i>Lane Splitting</i>	19
TWO-WHEEL VEHICLE OPERATION	1	<i>Merging Vehicles</i>	20
Motorcycles	1	<i>Vehicles Alongside</i>	20
Motor-Driven Cycles	2	Search, Evaluate, and	
Motorized Bicycles	2	Execute (SEE)	21
Motorized Scooter	2	<i>Search</i>	21
Motorcycle License Type Chart	3	<i>Evaluate</i>	21
LICENSE REQUIREMENTS	4	<i>Execute</i>	22
Earning Your License	4	Intersections	22
Applying for a Motorcycle Permit	5	<i>Blind Intersections</i>	23
Motorcycle Safety Training Course	6	<i>Passing Parked Vehicles</i>	23
Cheating	6	<i>Parking at the Roadside</i>	26
Motorcycle Skills Test	6	Increasing Visibility	26
PREPARING TO RIDE	8	<i>Clothing</i>	27
Wear the Right Gear	8	<i>Headlight</i>	27
<i>Helmet Use</i>	8	<i>Turn Signals</i>	27
<i>Helmet Selection</i>	9	<i>Brake Light</i>	28
<i>Face, Eye, and Ear Protection</i>	9	<i>Using Your Mirrors</i>	28
<i>Clothing</i>	10	<i>Head Checks</i>	29
Know Your Motorcycle	10	<i>Horn</i>	29
<i>The Right Motorcycle</i>	11	<i>Riding at Night</i>	30
<i>Get Familiar With the Motorcycle</i>		Collision Avoidance	30
<i>Controls</i>	11	<i>Quick Stops</i>	31
<i>Check Your Motorcycle</i>	11	<i>Swerving or Turning Quickly</i>	31
Know Your Responsibilities	12	<i>Cornering</i>	32
RIDE WITHIN YOUR ABILITIES	13	Handling Dangerous Surfaces	33
Basic Vehicle Control	13	<i>Uneven Surfaces and Obstacles</i>	33
<i>Body Position</i>	13	<i>Slippery Surfaces</i>	34
<i>Shifting Gears</i>	14	<i>Railroad or Trolley Tracks and</i>	
<i>Braking</i>	14	<i>Pavement Seams</i>	35
<i>Turning</i>	15	<i>Grooves and Gratings</i>	35
<i>U-turns</i>	15	Mechanical Problems	36
Keeping Your Distance	16	<i>Tire Failure</i>	36
<i>Lane Positions</i>	16	<i>Stuck Throttle</i>	36
<i>Carpool/High-Occupancy Vehicle</i>		<i>Wobble</i>	37
<i>(HOV) Lanes</i>	17	<i>Chain Problems</i>	37
<i>Toll Highways and Vehicle</i>		<i>Engine Seizure</i>	38
<i>Crossings: Using Transponders or</i>		Animals	38
<i>Electronic Payment Devices</i>	17	<i>Flying Objects</i>	38
<i>Following Another Vehicle</i>	17	<i>Getting Off the Road</i>	38
		Carrying Passengers and Cargo	38
		<i>Equipment</i>	39

<i>Motorcycles Towing Trailers</i>	39	GET A DUI – LOSE YOUR LICENSE!	44
<i>Instructing Passengers</i>	39	Alcohol and the Law.....	45
<i>Riding With Passengers</i>	40	Minimize the Risks	45
<i>Child Passengers</i>	40	Fatigue	45
<i>Carrying Loads</i>	40	MOTORCYCLE INSURANCE FACTS	45
Group Riding	41	EVADING A PEACE OFFICER	46
Keep the Group Small	41	TREAD LIGHTLY!	46
Keep the Group Together	41	KNOWLEDGE TEST SAMPLE 1	49
Keep Your Distance	42	KNOWLEDGE TEST SAMPLE 2	51
BEING IN SHAPE TO RIDE	43		
Blood Alcohol Concentration	43		

NEW LAWS 2015

EFFECTIVE JANUARY 1, 2015

Vehicles: Motorized Bicycles

The definition of motorized bicycles or "moped" has increased the maximum gross brake horsepower from less than two gross brake to less than four gross brake horsepower. The full definition of this vehicle's description can be found in *California Vehicle Code* (CVC) §406.

DISCLAIMER

This handbook is only a summary of laws and regulations. DMV, law enforcement, and courts follow the full and exact language of the law contained in the *California Vehicle Code*. You may buy a copy of the *California Vehicle Code* at any DMV office or visit our website at www.dmv.ca.gov.

WHERE TO WRITE

If you have any comments or suggestions regarding this publication, please send them to:

*Department of Motor Vehicles
Customer Communications Section MS H165
PO Box 932345
Sacramento, CA 94232-3450*

© Copyright, Department Of Motor Vehicles 2015
All rights reserved.

This work is protected by U. S. Copyright Law. DMV owns the copyright of this work. Copyright law prohibits the following: (1) reproduction of the copyrighted work; (2) distribution of copies of the copyrighted work; (3) preparation of derivative works based upon the copyrighted work; (4) displaying the copyrighted work publicly; or (5) performing the copyrighted work publicly. All requests for permission to make copies of all or any part of this publication should be addressed to:

*Department of Motor Vehicles
Legal Office MS C128
PO Box 932382
Sacramento, CA 94232-3820*

DMV INFORMATION

Most DMV offices are open 8 a.m. to 5 p.m. on Monday, Tuesday, Thursday, and Friday and from 9 a.m. to 5 p.m. on Wednesday. Some field offices have extended hours (open earlier), and a few offices offer only driver license or vehicle registration services. To find out if your local field office has extended hours, or to find a field office location and service options, go online or call the toll-free number.

Make sure to have your driver license or identification card number, motorcycle plate number, and/or vehicle identification number (VIN) available.

Go online at **www.dmv.ca.gov** for (to):

- Field office locations, hours, directions, and phone numbers.
- Make appointments to visit a field office or take a driving test (except for commercial driving tests).
- Order personalized plates.
- Driver license and identification card information.
- Vehicle/vessel registration information.
- Downloadable forms.
- Publications—handbooks, brochures, and sample tests.
- Senior driver information.
- Teen driver information.
- Links to other state and federal agencies.
- Renew your driver license or vehicle registration.

Call 1-800-777-0133 during normal business hours to:

- Obtain/request driver license and vehicle registration information, forms, and publications.
- Find office locations and hours.
- Make a driving test appointment.
- Speak to a DMV representative or request a call back during business hours.

Call 1-800-777-0133 for automated service 24 hours a day, 7 days a week to:

- Renew your driver license or vehicle registration with the renewal identification number (RIN) provided on your billing notice. You can pay with a credit card or e-check.
- Make an office appointment.

Persons with speech or hearing impairments can call toll free, 1-800-368-4327 for assistance with DMV services. Only typed messages from another TTY are received and responded to at this number.

Advertising sponsorship helps defray the printing costs of this publication. The products and services provided by the advertising sponsors are not promoted or endorsed by DMV, but the significant contribution by the advertising sponsors is most appreciated.

If you would like to advertise in this publication, please call the Office of State Publishing Advertising Department at 1-866-824-0603.

**PAGE LEFT
INTENTIONALLY
BLANK**

INTRODUCTION

This handbook supplements the *California Driver Handbook* concerning traffic laws, safe driving rules, and driver licenses. Study the *California Driver Handbook* as well as this supplement.

This supplement provides information for both novice and experienced drivers of two-wheel vehicles. Portions of this handbook which deal with safe driving practices (rather than traffic laws) were developed initially by the National Public Services Research Institute in cooperation with the Motorcycle Safety Foundation (MSF).

The MSF, California Highway Patrol (CHP), California Motorcyclist Safety Program (CMSP), various motorcyclist enthusiast groups, and the Department of Motor Vehicles (DMV) all agree that improved licensing, along with quality motorcycle rider education and increased public awareness, has the potential to reduce the number and severity of motorcycle collisions.

When using this handbook, remember that it is only a summary of laws and regulations. DMV, law enforcement, and courts follow the full and exact language of the law contained in the *California Vehicle Code* (CVC).

TWO-WHEEL VEHICLE OPERATION

The basic rules of the road contained in the *California Vehicle Code* apply to all two-wheel vehicles which include motorcycles, motor-driven cycles, mopeds, or bicycles with a motor attached. Minibikes, tote-goats, trail bikes, and similar vehicles may fall within the definition of motorcycle, motor-driven cycle, or motorized bicycle. If any of these vehicles are operated on a highway, they must meet applicable equipment, registration, licensing, and operation requirements, if appropriate. Any person registering a two-wheel motorcycle is required to obtain a Class M1 or M2 driver license prior to operating the vehicle.

It is illegal to ride a moped on a freeway. Additionally, it is illegal to ride a moped on a bicycle path or trail, equestrian (horse) trail, hiking trail, or recreational trail unless that path or trail is on or next to a road, or permission to use the trail or roadway is granted by local law.

MOTORCYCLES

A motorcycle has a seat or saddle for the rider and is designed to travel on not more than three wheels.

MOTOR-DRIVEN CYCLES

A motor-driven cycle is a motor-cycle with a 149 cc or less engine size.

NOTE: You may not operate a motor-driven cycle on a freeway if signs are posted to prohibit motor-driven cycle operation.

MOTORIZED BICYCLES

There are two definitions for motorized bicycles (mopeds). A motorized bicycle is:

- A two-or three-wheeled device, capable of no more than 30 mph on level ground, and equipped with:
 - Fully operative pedals for human propulsion.
 - A motor producing less than four gross brake horsepower and an automatic transmission.
 - An electric motor, with or without pedals for human propulsion (CVC §406(a)).
- A vehicle with pedals and an electric motor (not more than 1,000 watts) which cannot be driven at speeds of more than 20 mph on level ground even if assisted by human power (CVC §406(b)).

If you operate a motorized bicycle **which meets the definition of CVC §406(b), you:**

- **Must** be 16 years of age or older.
- **Must** wear a bicycle safety helmet.
- Are exempt from the motor vehicle financial responsibility, driver license, and moped plate requirements (CVC §12804.9).
- May ride a moped in a bicycle lane at a reasonable speed. Be careful of bicyclists using the lane.

MOTORIZED SCOOTER

A motorized scooter is defined as any two-wheeled “device” with:

- A motor, handlebars, and a floorboard for standing on when riding, and
- The options of having:
 - A driver seat which cannot interfere with the operator’s ability to stand and ride.
 - The ability to be powered by human propulsion.

NOTE: A motorized scooter may be driven with any class driver license. A motorized scooter may not be used to take a Class M1 or M2 skills test.

The motorized scooter’s exhaust system must not be modified or altered.

MOTORCYCLE LICENSE TYPE CHART

MOTORCYCLE LICENSE TYPE CHART			
TYPE OF VEHICLE	CALIFORNIA VEHICLE CODE	TYPE OF LICENSE	DESCRIPTION
Motorcycle	CVC § 400	M1	A motorcycle has a seat or saddle for the rider and is designed to travel on not more than three wheels.
Motor driven cycle	CVC § 405	M1 *	A motor-driven cycle is a motorcycle with a 149 cc or less engine size.
Motorized bicycle (Moped) (capable of no more than 30 mph)	CVC § 406(a)	M1 (with restriction) or M2*	A two- or three-wheeled device, capable of no more than 30 mph on level ground, and equipped with fully operative pedals for human propulsion, a motor producing less than four gross brake horsepower and an automatic transmission or an electric motor, with or without pedals for human propulsion.
Motorized bicycle* (capable of no more than 20 mph)	CVC § 406(b)	Not required	A vehicle with pedals and an electric motor (not more than 1,000 watts) which cannot be driven at speeds of more than 20 mph on level ground even if assisted by human power.
Motorized scooter	CVC § 407.5	Any class of license	A motorized scooter is defined as any two-wheeled “device” with a motor, handlebars, and a floorboard for standing on when riding, and the options of having a driver seat which cannot interfere with the operator’s ability to stand and ride and/or the ability to be powered by human propulsion.
*Vehicles under 150 cc do not have the engine capability to be safely driven on a freeway.			

LICENSE REQUIREMENTS

California issues the following license classes for two-wheel vehicle operation:

- Class M1—You may operate any two-wheel motorcycle, motor-driven cycle, or motorized scooter and all vehicles listed under Class M2.

NOTE: The permit and license requirements in this handbook pertain to two-wheel vehicles and are referenced in Section 12804.9 of the *California Vehicle Code*.

- Class M2—You may operate any motorized bicycle, moped, or a bicycle with an attached motor, or a motorized scooter.

NOTE: Class C licensees may operate a motorcycle with a side car attached or a three-wheel motorcycle.

EARNING YOUR LICENSE

Safe riding requires knowledge and skill. Testing two-wheel vehicle operators is the best measurement of the skills necessary to operate safely in traffic because people often overestimate their own abilities. DMV's licensing exams are designed to be scored objectively.

You may apply for a Class M1 or M2 license at any DMV office

which provides driver license services. To obtain your license, you must pass a knowledge test and pass a motorcycle skills test or obtain a Certificate of Completion of Motorcycle Training (DL 389) as defined in the Motorcycle Safety Training Course section below.

To locate a field office that offers the motorcycle skills test and/or to schedule an appointment, call 1-800-777-0133 or visit **www.dmv.ca.gov**.

Knowledge test questions are based on information, practices, and ideas from this handbook and the *California Driver Handbook*.

The motorcycle skills test is conducted in either an actual traffic environment or in a controlled off-street area.

APPLYING FOR A MOTORCYCLE PERMIT

TO OBTAIN A PERMIT

REQUIREMENTS	ADULTS AGE 21 AND OVER	ADULTS AGE 18 TO 20	MINORS AGE 15½ TO 17 <i>(Requires parent or guardian signature)</i>
Complete a DMV application (DL44 or DL44C) form	✓	✓	✓
Pay required fees	✓	✓	✓
Meet DMV vision standards	✓	✓	✓
Have fingerprint captured	✓	✓	✓
Have photo taken	✓	✓	✓
Provide required signature(s)	✓	✓	✓
Have had instruction permit for at least 6 months	—	✓	✓
Pass applicable knowledge exams	✓	✓	✓
Provide Certificate of Completion of Motorcycle Training (DL389)	—	✓	✓

NOTE: While not required, motorcycle applicants age 21 and older are encouraged to enroll in the motorcycle safety training course.

The Class M1/M2 permit includes the following restrictions:

- No carrying passengers.
- No freeway driving.
- No nighttime driving.

NOTE: Minors age 15½–17 must bring proof of completion of both driver education and driver training or be currently licensed.

MOTORCYCLE SAFETY TRAINING COURSE

Motorcycle applicants under 21 years of age are **required** to complete a motorcycle safety training course **before** receiving a motorcycle instruction permit.

Motorcycle applicants 21 years of age and older are **encouraged** to enroll in the motorcycle safety training course. The motorcycle safety training course offered by the California Motorcyclist Safety Program (CMSP) provides hands-on motorcycle knowledge and skill training for novice and experienced riders. CMSP has trained thousands of riders over the past several years. The DMV motorcycle skills test may be waived upon completion of the motorcycle safety training course and submission of the Certificate of Completion of Motorcycle Training (DL 389). For more information you may contact CMSP at 1-877-RIDE-411 or visit **www.californiamotorcyclist.com**.

NOTE: The DL 389 is valid for 12 months from the issue date.

CHEATING

The use of testing aids is strictly prohibited. This includes, but is not limited to: the *California Motorcycle Handbook*, *California Driver Handbook*, cheat sheets,

or electronic communication devices such as a cell phone, computer, tablet, etc. If any testing aid(s) are used during the knowledge test, the knowledge test will be marked as a “failure.” An action may also be taken by DMV against your driving privilege or the driving privilege of anyone else who assists you in the examination process.

MOTORCYCLE SKILLS TEST

Basic vehicle control skills are included in the motorcycle skills test to determine your ability to maneuver in normal traffic situations. The skills test may be waived for a person presenting a valid Certificate of Completion of Motorcycle Training (DL 389); however, you may be required to perform an observation test when applying for a motorcycle only (Class M1/M2) license. The DL 389 is valid for 12 months from the issue date.

The motorcycle skills test allows the rider to demonstrate his or her ability to control the motorcycle through several skills. Applicants taking the motorcycle skills test should consider the size of the motorcycle they plan to operate. The motorcycle skills test is a pass/fail test.

The motorcycle skills test includes the following:

Pre-trip Inspection - You will be asked to identify items on your motorcycle. The items you will be asked to identify are the:

- Starter
- Kill switch
- Clutch (if equipped)
- Throttle
- Gear selector
- Dimmer switch
- Brakes
- Turn signals
- Horn

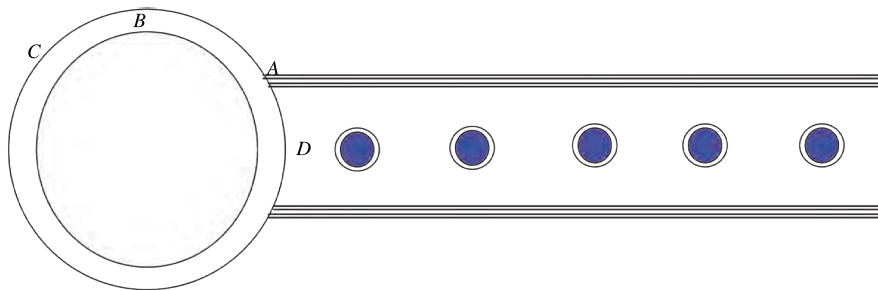
You will be asked to demonstrate the following skills, which include tracking paths (the area within and including the tracking lines):

- **Serpentine Ride** – Beginning on the right of the first cone, you will weave through a row of five traffic cones. At the end of the row of cones you will begin the circle ride.
- **Circle Ride** – Ride around the circle twice in a clockwise direction keeping the front wheel within the tracking path,

and return to the starting point, weaving once more through the row of five cones.

- **Slow Ride** – Ride slowly between two parallel lines keeping the front tire within the tracking path. At the end of the tracking path, begin the circle ride twice in a counter-clockwise direction.
- **Gear Shift Ride** – Ride in a straight path, shifting gears up, then down, complete a U-turn and return, shifting gears up, then down and end in a smooth stop at the starting point. This is only performed on motorcycles with a clutch and gears.

- A. The width inside of the parallel ride lane is one foot.
- B. The width inside the circle ride lane is two feet.
- C. The diameter of the outside circle is twenty-four feet.
- D. The cones are spaced twelve feet apart. The width of the area for the cones is eight feet.



Observation Test (if applying for a motorcycle-only license)

– The examiner will observe your driving from a preselected vantage point, usually on the corner, near the office. They will instruct you to follow a route that will keep you in view for the longest period of time.

PREPARING TO RIDE

WEAR THE RIGHT GEAR

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

- A motorcycle safety helmet that is U.S. Department of Transportation (DOT) compliant.
- Face or eye protection.
- Protective clothing; for example, a leather or long sleeve jacket, long heavy pants over ankle boots, full-fingered leather gloves.

More information on wearing the right gear is covered in the following pages.

Helmet Use

All operators and passengers are required by law to wear a motorcycle safety helmet when riding a motorcycle, motor-driven cycle, or motorized bicycle. The

motorcycle safety helmet must be certified by the manufacturer that the helmet complies with the Department of Transportation (DOT), Federal Motor Vehicle Safety Standard (FMVSS) 218. Research shows that head injuries account for a majority of serious and fatal motorcyclist injuries and that with few exceptions, head injuries are reduced by properly wearing a motorcycle safety helmet. Here are some facts to consider:

- A motorcycle safety helmet allows you to see as far to the sides as necessary.
- Most collisions 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 collision occurs. At these speeds, a motorcycle safety helmet can cut both the number and the severity of head injuries by half.

No matter what your speed in a collision, if you are wearing a motorcycle safety helmet you are three times more likely to survive a head injury than if you aren't wearing one.

Helmet Selection



There are four types of helmets to consider: A half shell, three-quarters, modular, or full-face helmet. However, a full-face helmet with a lock-in visor, offers the best coverage and protection to the back and sides of your head.

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

- Meets DOT safety standards and has the manufacturer-applied DOT lettering on the back of the helmet.

NOTE: DOT lettering should not be a stick-on label or easily removed.

- Fits snugly, all the way around.
- Has no obvious defects such as cracks, loose padding, or frayed straps.

Keep your motorcycle safety helmet securely fastened on your head when you ride. Otherwise, if you are involved in a collision,

it may come off your head before it gets a chance to protect you.

Face, Eye, and Ear Protection

A plastic shatter-resistant face shield can help protect your whole face in a collision. It also protects you from wind, dust, dirt, rain, insects, and pebbles thrown up from the vehicles ahead.

Goggles protect your eyes, but they don't protect the rest of your face as a face shield does. A windshield is not a substitute for a face shield or goggles. Most windshields will not protect your eyes from the wind, nor will eyeglasses or sunglasses. Glasses won't keep your eyes from watering, and they might blow off when you turn your head.

To be effective, eye or face shield protection must:

- Be free of scratches.
- Be resistant to punctures.
- Give a clear view to either side.
- Fasten securely, so it does not blow off or up.
- 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.

To protect against the elements of nature, such as wind, which can cause hearing loss, you may want to use ear protection. CVC §27400 states that a person may not wear a headset covering or earplugs in both ears, unless the protectors (earplugs or molds) are specifically designed to reduce harmful (injurious) noise levels. They shall be designed not to inhibit the wearer's ability to hear a siren or horn from an emergency vehicle or another motor vehicle.

Clothing

The right clothing protects you in a collision. It also provides comfort, as well as protection from heat, cold, debris, and the 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, but still allow you to move freely. Leather or a sturdy synthetic material offers the most protection. Wear a jacket even in warm weather to prevent dehydration. Many jackets are designed to protect without getting you overheated, even on summer days.
- Boots or shoes should be high and sturdy enough to cover

and support your ankles. Soles should be made of hard, durable, slip-resistant material. The heels should be 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. Your gloves should be made of leather or similar durable material.

Riding for long periods in cold weather can cause severe chill and fatigue. Numbness can make it difficult to control a motorcycle. In cold or wet weather, layer clothes to keep yourself warm and dry, as well as protect you from injury. A winter jacket should resist wind and fit snugly at the neck, wrists, and waist. Good quality rain suits designed for motorcycle riding resist tearing apart or ballooning up at high speeds.

KNOW YOUR MOTORCYCLE

There are many 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:

- Start with the right motorcycle for you.
- Read the owner's manual first.

- 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

First, make sure your motorcycle “fits” you. Your feet should reach the ground while you are seated on the motorcycle. At minimum, your street-legal motorcycle must have:

- Tires with sufficient tread for safe operation.
- A headlight, taillight, brake light, and turn signals.
- Front and rear brakes.
- A horn and two mirrors.

Get Familiar With the Motorcycle Controls

Be completely familiar with the motorcycle before you take it out on the street. If you use an unfamiliar motorcycle:

- Make all the safety and maintenance checks you would on your own motorcycle.
- Find out where everything is, particularly the turn signals, horn, headlight switch, fuel-supply valve, and engine

cut-off switch. You should be able to find them 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 your surroundings. Accelerate gently, take turns more slowly, and leave extra room for stopping.

Check Your Motorcycle

A motorcycle needs more frequent attention than a car. If something is wrong with the motorcycle, you’ll want to find out about it before you get in traffic. Make the following checks before every ride:

- **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 work.
- **Turn Signals**—Turn on both right and left turn signals. Make sure all lights work properly.

- **Battery**—Check the battery condition and electrolyte level; ensure the terminals are clean and tight, and that the battery is fastened securely.
- **Brake Light**—Try both brake controls and make sure each one turns on the brake light.
- **Chain or Belt**—Check the tension, lubrication, and sprockets.
- **Kick-Stand**—Check the kick-stand for cracks, bent springs, and tension to hold position.

Once you are on 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. 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 is 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**—Make sure the horn works.

In addition to the checks before every trip, check the following items at least once a week: wheels, cables, fasteners, and fluids. Follow the manufacturer's recommendations.

Collisions are fairly common among new riders. Riding an unfamiliar motorcycle adds to the problem. Get familiar with any motorcycle that is new to you, preferably in a controlled area. (No matter how experienced you may be, ride extra carefully on any motorcycle that is new or unfamiliar to you.) Remember that more than half of all collisions occur on motorcycles ridden by riders with less than six months experience.

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 collision can usually claim some responsibility for what takes place.

Blame doesn't matter when someone is injured in a collision. There is rarely a single cause of any collision. The ability to be aware, make critical decisions,

and carry them out separates responsible riders from all the rest. It is up to you to keep from being the cause of, or an unprepared participant in, any collision.

As a rider, you can't be sure that others will see you or yield the right of way. To reduce the chances of a collision:

- **Be visible.** Wear proper clothing, use your headlight, and 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.** Allow yourself enough space when following, being followed, lane splitting, passing, and being passed.
- **Be aware.** Monitor vehicle traffic in front of you and approaching traffic from behind and maintain an escape route.
- **Scan your path of travel.** Look at least 10 to 15 seconds ahead.
- **Identify and separate multiple hazards.**
- **Be prepared to act.** Remain alert and know how to carry out proper collision-avoidance skills.

RIDE WITHIN YOUR ABILITIES

This handbook cannot teach you how to control direction, speed, or balance. You learn this only through practice and by knowing your abilities and riding within them.

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 your arms are slightly bent when holding the handlegrips. Bending your arms permits you to press on the handlebars without having to stretch.
- **Hands**—Hold the handlegrips firmly. Start with your right wrist flat so you won't accidentally use too much throttle. Also, adjust the handlebars so your hands are even with or below your elbows. This allows you to use the proper muscles for precision steering.
- **Knees**—Keep your knees against the gas tank to help with your balance as you turn the motorcycle.
- **Feet**—Keep your feet firmly on the footpegs for balance. Don't

drag your feet or you could be injured and lose control of the motorcycle. Keep your feet near the controls. Also, don't point your toes 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 stopped so you can move out quickly, if needed.

Ride slowly enough when you shift into a lower gear or the motorcycle will lurch and the rear wheel may skid. When riding downhill or shifting into first gear you may need to slow to downshift safely. Work toward a smooth, even clutch release especially when downshifting.

It is best to change gears before starting a turn. However, sometimes you may need to shift while in the turn. Remember to shift smoothly because 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 brakes 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 when you use it properly.

REMEMBER:

- Use both brakes every time you slow or stop. Using both brakes for “normal” stops permits you to develop the proper habit and skill of using both brakes properly, which you may need in an emergency. Squeeze the front brake and press down on the rear brake. Grabbing at the front brake or jamming down on the rear brake can cause the brakes to lock and result in control problems.
- If you know the technique, using both brakes in a turn is possible, although it should be done very carefully. When you lean the motorcycle, some of the traction is used for cornering and 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 gently squeeze the brake lever, never “grab” it.

- Some motorcycles have integrated braking systems that link the front and rear brakes together when you apply the rear brake pedal. (Consult your owner’s manual.)

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. In some cases, riders overreact and brake too hard causing a skid and loss of control. Approach turns and curves with caution.

Use four steps for better control:

1. **Slow**—Reduce your speed before the turn by rolling off the throttle and, if necessary, applying both brakes.
2. **Look**—Look through the turn to where you want to go. Turn only your head, not your shoulders, and keep your eyes level with the horizon.
3. **Press**—To turn, the motorcycle must lean. To lean the motorcycle, press on the handlebar grip 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.

4. **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.

In slow tight turns, the rider should keep his or her body straight and only lean the motorcycle.

U-turns

Completing U-turns on a motorcycle requires more effort than an automobile. You need to maintain control and balance to maneuver a motorcycle through a tight U-turn. Here are some tips for completing U-turns successfully:

- **Look**—Look through the turn to where you want to go. Turn only your head, not your shoulders, and keep your eyes level with the horizon.
- **Friction Zone**—The friction zone is the area of the clutch between completely engaged and completely released. Riding within the friction zone will give you more control through the turn.

- **Dragging the Rear Brake**—Dragging the rear brake is the practice of utilizing the rear brake to control the bike speed and maintain stability, such as in a U-turn. The front brake should not be used as it could cause the bike to tip over.
- **Centralize Weight**—A motorcycle will be easier to maneuver when the weight is kept close to the bike. Keep your feet on the pegs and, if necessary, apply weight to the outside peg to equalize balance.
- **Practice**—Practice executing U-turns in an empty open parking lot. Start with wide U-turns and gradually tighten the turning radius. Also practice U-turns in both directions by *riding* in figure (8) *patterns* until you are comfortable with U-turns in both right and left directions.

KEEPING YOUR DISTANCE

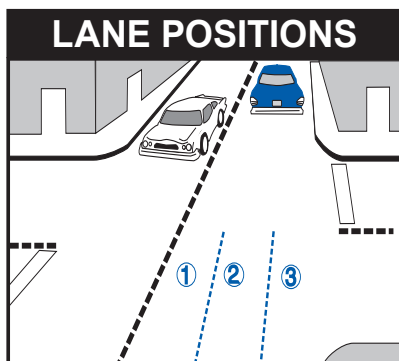
The best protection you can have is distance—a “cushion of space”—all around your motorcycle. If someone else makes a mistake, distance gives you:

- 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.
- Protect your lane from other drivers.
- Communicate your intentions.
- Help you avoid wind blasts from other vehicles.
- Provide an escape route.

Select the appropriate lane position to maximize your space cushion and make yourself more visible to others on the road.

In general, there is no “best lane position” for riders in which to be seen and to maintain a space cushion around the motorcycle. Position yourself in the lane that allows the most visibility and space around you. Change your lane position as traffic situations change. Ride in paths 2 or

3 if vehicles and other potential problems are on your left side. If vehicles are on both sides of you, the center of the lane (path 2) is usually the best option.

The oily strip in the center portion of the lane is usually no more than two feet wide. You can ride just to the left or right of the oily strip and still be within the center portion of the traffic lane. Avoid riding on oil and grease buildups.

Carpool/High-Occupancy Vehicle (HOV) Lanes

A carpool lane is a special free-way lane used only for carpools, buses, motorcycles, or decaled low-emission vehicles. The pavement in this lane is marked with a diamond symbol \diamond and the words "Carpool Lane." These lanes are also known as high-occupancy vehicle (HOV) lanes. Do not cross over double parallel lines to enter or exit any carpool lane except at designated entry or exit places. Motorcyclists are allowed to use Carpool/HOV lanes, unless otherwise posted.

Toll Highways and Vehicle Crossings: Using Transponders or Electronic Payment Devices

In California, high-occupancy toll (HOT) lanes and toll highways are fee-paid roadways that

are used in heavily traveled areas to relieve traffic congestion.

Commuters traveling on toll highways or using HOT lanes may purchase transponders, which track their vehicle's usage of these roadways. Transponders allow drivers to pay toll fees through electronic billing.

When using a transponder or other electronic payment device while driving on a toll highway, HOT lane, or toll bridge, motorcyclists are allowed to place the payment device in five locations (on the motorcycle or carried by the driver), as long as the toll reader can detect the device.

The locations are:

- In the motorcyclist's pocket.
- Inside a cycle net draped across the gas tank of the motorcycle.
- On the license plate device, if the toll operator provides such a device.
- In a storage compartment on the motorcycle.
- On the windshield of the motorcycle.

Following Another Vehicle

"Following too closely" (tailgating) could be a factor in collisions involving motorcyclists. In traffic, motorcycles need as much distance to stop as other vehicles.

Normally, you should maintain a two-second following distance.

To gauge your following distance:

- Ahead of you, pick out a marker such as a pavement marking or lamp post.
- When the rear bumper of the vehicle ahead of you passes the marker, count off the seconds: “one-thousand-one, one-thousand-two.” If you reach the marker before you reach “one-thousand-two,” you are following too closely.
- A two-second following distance gives you a minimum amount of space to stop or swerve, if the driver ahead stops suddenly. It also gives you a better view of potholes and other road hazards.
- Increase following distance when the motorcycle is towing a trailer as increased stopping distance is required.
- You will need a larger space cushion if your motorcycle takes longer than normal to stop. Open up a three-second or more following distance when the pavement is slippery, or you cannot see through the vehicle ahead, or traffic is heavy, or someone may squeeze in front of you.
- When you are stopped, keep well behind the vehicle ahead

of you. This will make it easier to get out of the way if a driver behind you is traveling too quickly or the vehicle ahead starts to back up.

- When behind a vehicle, ride where the driver can see you in his or her rearview mirror.

If you ride in the left or right portion of the lane, the driver **may** see you in his or her side view mirror. If the traffic situation allows, the center lane position is usually the best place for you to be seen by the driver in his or her rearview mirror and to prevent lane splitting by others.

Being Followed

When you speed up to lose a tailgater, you only end up with someone tailgating you at a higher speed.

A better way to handle tailgaters is to allow them to pass you. If you can't do this, slow down and open up extra space ahead of you. This will allow space for both you and the tailgater to stop. This will also encourage the tailgater to pass. But if the tailgater doesn't pass, you have at least given yourself and the tailgater more time and space to react in case an emergency develops.

Passing and Being Passed

Passing and being passed by a larger vehicle is not much different than with a smaller passenger vehicle. 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 your 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 vehicle you are passing and provides space to avoid hazards in your lane.
3. Ride through the driver's blind spot as quickly as possible.
4. Signal again and complete mirror and head checks before returning to your original lane. Then cancel your turn signal.

Remember, passing must be completed within posted speed limits, and only where permitted.

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 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 are 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 of the lane when hit by this blast than if you are on either the left or right portions of the lane.

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

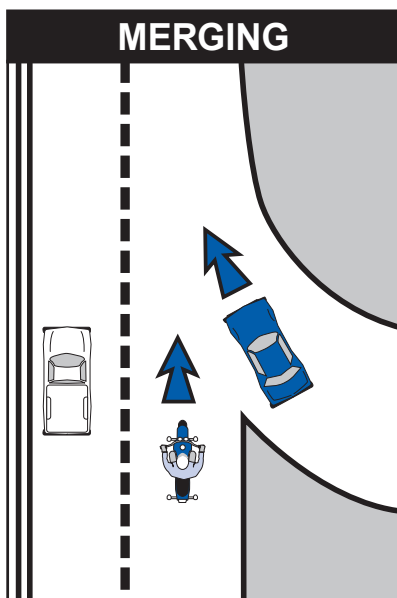
Lane Splitting

The term lane splitting, also known as lane sharing, filtering, or white-lining refers to the process of a motorcyclist riding

between lanes of stopped or slower-moving traffic or moving between lanes to the front of traffic stopped at a traffic light. Vehicles and motorcycles each need a full lane to operate safely and riding between rows of stopped or moving vehicles in the same lane can leave you vulnerable. A vehicle could turn suddenly or change lanes, a door could open, or a hand could come out the window.

Merging Vehicles

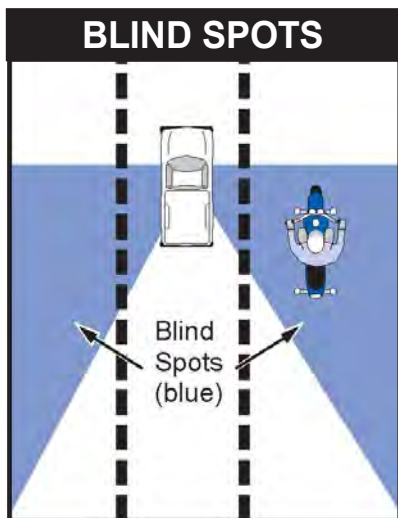
Drivers on an entrance ramp may not see you on the highway. Give them plenty of room. Change to another lane if one is open. If there is no room for a lane change, adjust your speed to open up space for the merging driver.



Vehicles Alongside

Do not ride next to passenger vehicles or trucks in other lanes *if you don't have to* because you might be in the driver's blind spot. The driver could change lanes without warning.

Also, vehicles in the next lane can 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.



SEARCH, EVALUATE, AND EXECUTE (SEE)

Experienced riders remain aware of what is going on around them. They improve their riding strategy by using SEE, a three-step process for making appropriate judgments and applying them correctly in different traffic situations. SEE stands for: **Search**, **Evaluate**, and **Execute**.

Search

Actively search ahead, to the sides, and behind to help you avoid potential hazards. How 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, or school and construction zones.

Search for factors such as:

- Oncoming traffic that may turn left in front of you.
- Traffic coming from either the left, right, or behind.
- Hazardous road conditions.

Evaluate

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

- Road and surface characteristics such as potholes, guardrails, bridges, telephone poles, and trees won't move into your path but may influence your riding strategy.
- Traffic control devices such as traffic signals, regulatory signs, warning signs, and pavement markings will help you evaluate circumstances ahead.
- Vehicles and other traffic may move into your path and increase the likelihood of a collision.

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 your horn.
- Adjust your speed by accelerating, stopping, or slowing.
- Adjust your lane position and/or direction of travel.

Apply the old saying “one step at a time” to handle two or more hazards. Adjust your speed so you can deal with each hazard separately. 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.

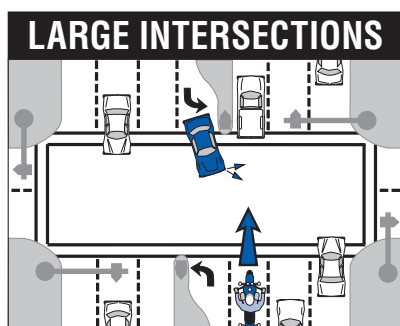
In high-risk areas, such as intersections, shopping areas, or school and construction zones, cover the clutch and both brakes to reduce your reaction time.

INTERSECTIONS

The greatest potential for conflict between you and other traffic is at intersections. An intersection is anywhere traffic may cross your path. It can be in the middle of an urban area or at a driveway on a residential street. Over one-half of motorcycle/passenger vehicle collisions are caused by drivers

entering a rider's right-of-way. Vehicles that turn left in front of you, including those illegally turning left from the wrong lane, and vehicles on side streets that pull into your lane, are the biggest dangers. Your use of the SEE process at intersections is critical (see page 21).

There are no guarantees that others will see you. Never count on “eye contact” as a sign that a driver will yield to you. Too often, a driver can look right at a motorcyclist and still fail to “see” him or her. The only eyes that you can count on are your own. If a vehicle 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 you with the best view of oncoming traffic. Maintain a space cushion around

your motorcycle that permits you to take evasive action.

As you approach an intersection, select a lane position that increases your visibility to the driver. Cover the clutch and both brakes to reduce reaction time.

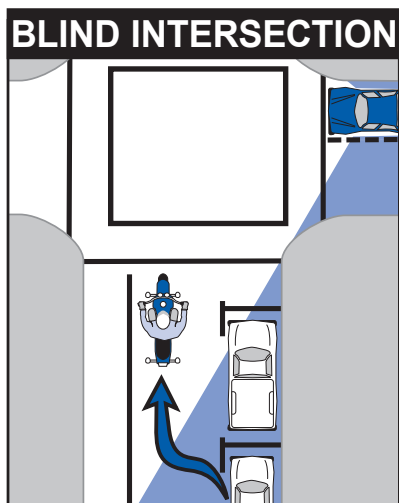
Reduce your speed as you approach an intersection. After entering the intersection, move away from vehicles preparing to turn. Do not change speed or position radically. The driver might think that you are preparing to turn.

Blind Intersections

When you approach a blind intersection, move to the portion of the lane that brings you into another driver's field of vision at the earliest possible moment. In this picture the rider has moved to the left portion of the lane—away from the parked vehicle—so the driver on the cross street can see him or her as soon as possible.

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 vehicles, or bushes to see if anything is coming. Make sure your front wheel stays out of the

cross lane of travel while you are looking.



Passing Parked Vehicles

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

It is not only trucks that have

BLIND SPOTS

All vehicles have them. Where are your vehicles' blind spots?

www.dmv.ca.gov

1-800-777-0133



DRIVE LIKE OUR LIVES DEPEND ON IT.

Every hour a pedestrian is killed or injured in California.

Slow down

Look out for others

Don't drive distracted

IT'S  TO
ALL of US

CALIFORNIA OFFICE of TRAFFIC SAFETY and CALIFORNIA DEPARTMENT of PUBLIC HEALTH



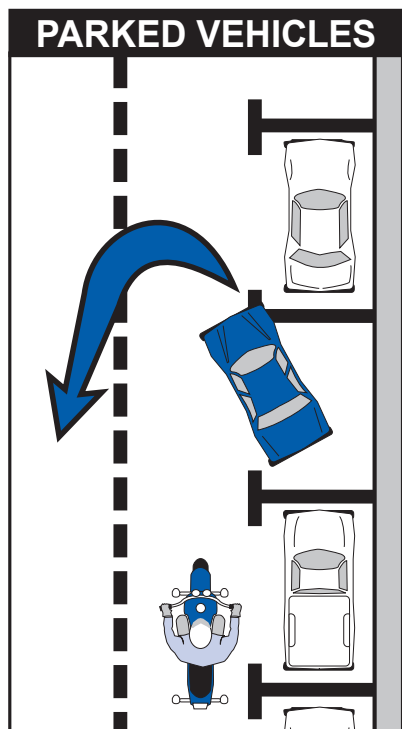
CALIFORNIA PEDESTRIAN AND BICYCLIST
ENFORCEMENT AND EDUCATION PROJECT



Funding for this program was provided
by a grant from the California Office
of Traffic Safety, through the National
Highway Traffic Safety Administration.

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

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

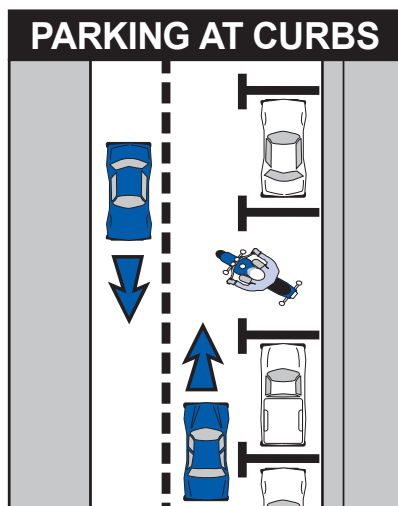


Vehicles making a sudden U-turn are the most dangerous. They may cut you off entirely, blocking the whole roadway and leaving you with no place to go. Since you can't tell what a driver will do, slow down and get the driver's

attention. Sound your horn and continue with caution.

Parking at the Roadside

Park at an angle of 45 to 90 degrees to the curb with a wheel or fender touching the curb.



INCREASING VISIBILITY

In collisions with motorcyclists, drivers often say that they never saw the motorcycle. From ahead or behind, a motorcycle's outline is much smaller than a passenger vehicle'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 vehicles 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 motorcycle.

Clothing

Most collisions occur in broad daylight. Wear brightly-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 the best for being seen. Brightly-colored helmets can also help others see you.

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

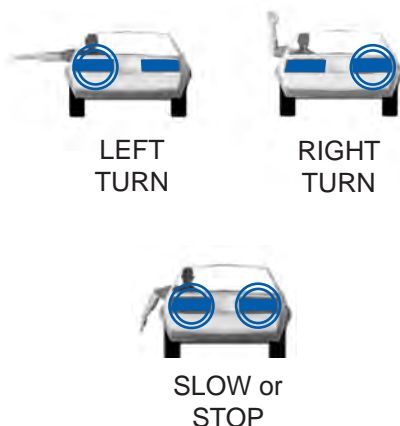
Headlight

The best way to help others see your motorcycle is to always keep the headlight on. Studies show that during the day, a motorcycle with its light on is twice as likely to be noticed. Using your high beam during the day and at

night increases the chances that oncoming drivers will see you. Use your high beam when it is legal and safe to do so. When it is foggy, use the low beam.

Turn Signals

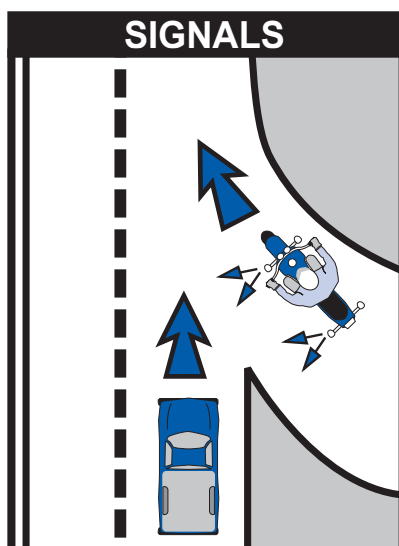
The turn signals on a motorcycle are similar to those on a vehicle. They tell others what you plan to do.



However, due to a rider's added vulnerability, turn signals are even more important. Use them anytime you plan to change lanes or turn. Signal your left or right turn during the last 100 feet before reaching the turning point. At highway speeds, it is best to signal at least five seconds before changing lanes. Use your turn signals even when you think no one else is around. Your turn signals also make you easier to see. If bright sunlight makes your

turn signal lights hard to see, use hand signals.

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



Using your turn signals before each turn reduces confusion and frustration for the traffic around you. Once you turn, be sure to turn them off or a driver may pull directly into your path, thinking you plan to turn again.

Brake Light

Your motorcycle's brake light is usually not as noticeable as a vehicle's—especially when the taillight is on. If the situation permits, 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:

- For a tight, fast turn off a high-speed highway.
- Where others may not expect it (in the middle of a block or at an alley).

If you are being tailgated, it's a good idea to flash your brake light before you slow.

Using Your Mirrors

While it's most important to know what's happening ahead, you can't ignore situations behind you. Traffic conditions change quickly. To make safe decisions about how to handle trouble ahead, you must know what is going on behind you.

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 vehicles 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 you 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.

Some motorcycles have rounded (convex) mirrors. These mirrors provide a wider view of the road behind than flat mirrors. They also make vehicles seem farther away than they really are. If you are not used to convex mirrors, you can get familiar with them by:

- Picking out a parked vehicle in your mirror (while you are stopped).
- Forming a mental image of how far away it is.
- Then, turning around and looking to see how close you came.
- Practicing with your mirrors until you become a good judge of distance.
- Allowing extra distance before you change lanes.

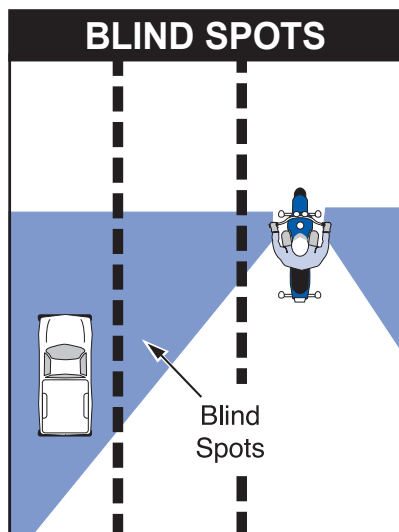
Head Checks

Checking your mirrors is not enough. Motorcycles have “blind spots” just like other vehicles. Before you change lanes, turn your head and check that lane 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 drive into the same space you plan to take.

Frequent head checks should be part of your normal scanning routine. Only by knowing what is happening all around, can you be 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 driver is seated in a parked vehicle ahead.

- 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.

Remember that a motorcycle's horn isn't as loud as other vehicles', so 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 motorcycle's headlight or taillight out of the other lights is not easy for drivers. To make up for this, you should:

- **Reduce your speed.** Ride even slower than you would during the day—particularly on roads you don't know well. This increases 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 at night. Open up a three-second or more following distance. Allow more distance to pass and be passed.

- **Use the vehicle ahead.** The headlights of the vehicle ahead can give you a better view of the road than your high beam. 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 approaching another vehicle. Be visible. Wear reflective materials when riding at night.
- **Be flexible** about lane position. Change to the portion of the lane that helps you see, be seen, and keep an adequate space cushion.

COLLISION 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 collision occurs because a rider is not prepared or skilled in collision-avoidance maneuvers.

Two skills critical in avoiding a collision are knowing when and how to stop or swerve. You can't always stop quickly to avoid an obstacle. You must also be able to swerve around an obstacle.

Studies show that most collisions involve riders who:

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

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 with continuing steady pressure. If the front wheel locks, release the front brake immediately and 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, you can keep it locked until you have completely stopped.

NOTE: Even with a locked rear wheel, you can control the motorcycle on a straightaway if it is upright and going in a straight line.

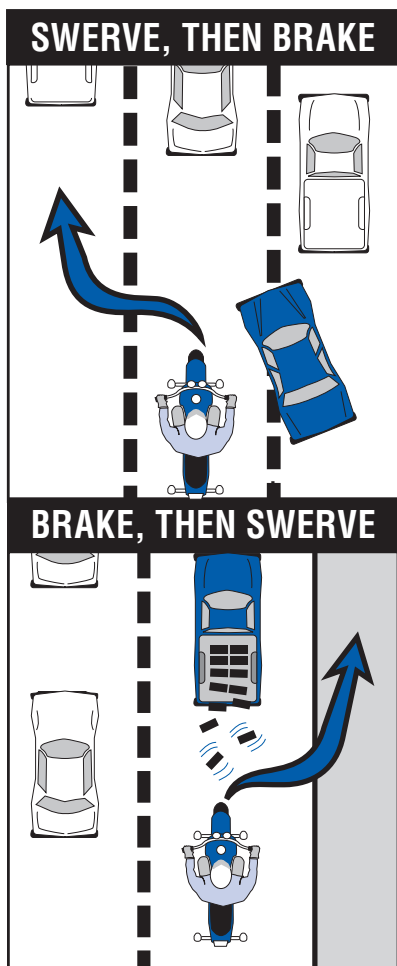
Always use both brakes at the same time to stop. The front brake can provide almost three-quarters of your stopping power. If you must stop quickly while turning or riding a curve, the best technique is to straighten the motorcycle first and then brake. However, it may not always be

possible to straighten the motorcycle and then stop. If you must brake while leaning, apply the brakes lightly and reduce the throttle. As you slow, reduce your lean angle and apply more brake pressure until the motorcycle is straight and maximum brake pressure is possible. Then in the last few feet of stopping, you should "straighten" the handlebars. The motorcycle should now 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 vehicle ahead might stop abruptly. The only way to avoid a collision 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. To swerve, apply a small amount of hand pressure to the handlegrip on the side of your intended direction of escape. This causes 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. Keep your knees against the tank and your 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 and are ready to return 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

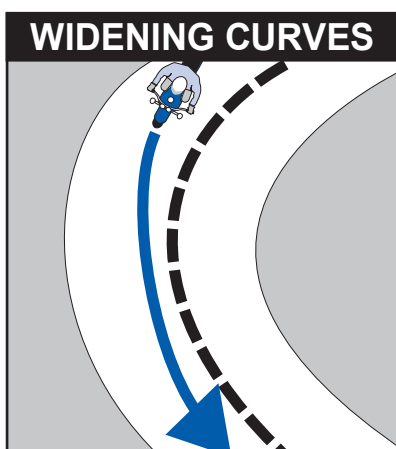
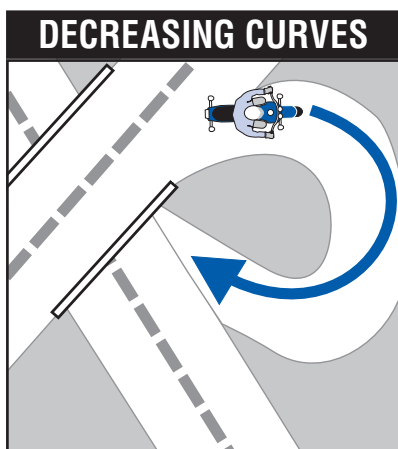
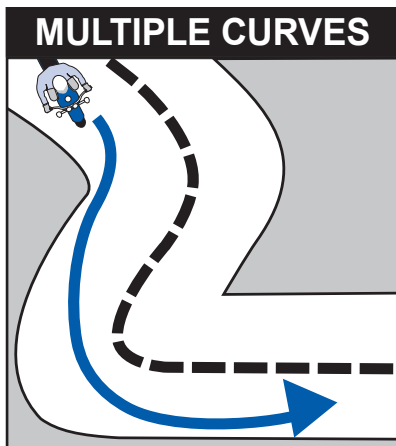
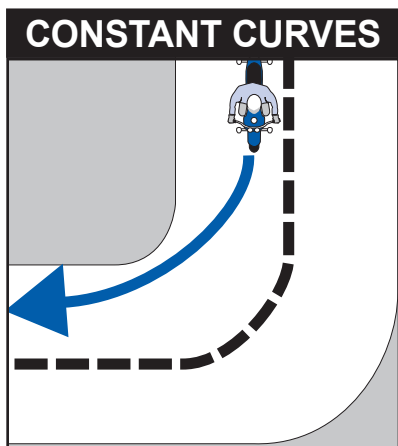
A primary cause of single-vehicle collisions is motorcyclists running wide in a curve or turn and colliding with the roadway or a fixed object.

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 your lane position based on traffic, road conditions, and curve of the road. If there is no traffic, 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 choice is to move to the center of your lane before entering a curve and stay there



until you exit. This allows you to see approaching traffic as soon as possible. You can also adjust for traffic “crowding” the center line or debris blocking part of your lane.

HANDLING DANGEROUS SURFACES

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

- Uneven surfaces or obstacles

- Slippery surfaces
- Railroad tracks or pavement seams
- Grooves and gratings

Uneven Surfaces and Obstacles

Watch for uneven road surfaces such as bumps, broken pavement, potholes, or trash on the highway.

Avoid obstacles by slowing or going around them. However, if you must go over the obstacle,

first determine if it's possible. Approach it at as close to a 90-degree 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.
- 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, pull off the road and check your tires and rims for damage before riding any farther.

Slippery Surfaces

Motorcycles handle better on surfaces with good traction. Motorcyclists may find it challenging to maintain safe control on surfaces with poor traction such as:

- **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 reduce your chances of skidding. When slippery, your motorcycle needs more distance to stop. It is especially 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 to use gentle pressure on the rear brake.
- **Remember that the center of a lane can be hazardous when wet.** When it starts to rain, ride in a vehicle's tire tracks. Often, the left tire track will be the best lane position, depending on traffic and other road conditions as well.

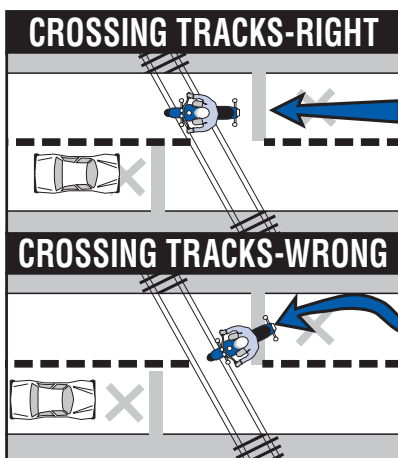
- **Watch for oil spots** when you put your foot down to stop or park. You may slip and fall.
- **Be cautious of the edge of the road.** Dirt and gravel collect along the sides of the road, especially on curves and ramps leading to and from highways.
- **Remember rain dries and snow melts faster on some sections of a road than on others.** Patches of ice tend to develop in low or shaded areas and on bridges and overpasses. Wet leaves are just as slippery as wet road surfaces. Ride on the least slippery portion of the lane and reduce your speed.

Cautious riders steer clear of roads covered with ice or snow. If you can't avoid an icy or snowy 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.

Railroad or 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-degree angle) can be more dangerous because your path may carry you into another lane of traffic.

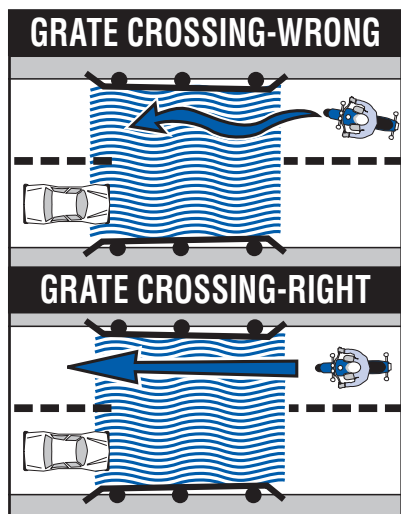
For track and road seams that run parallel to your course, move far enough away from tracks, ruts, or pavement seams to cross at an angle of at least 45 degrees. Then, make a quick, sharp turn. Edging across could catch your tires and throw you off balance.



Grooves and Gratings

Riding over rain grooves or bridge gratings may cause your motorcycle to weave. This uneasy, “wandering” feeling is generally not hazardous. Relax and 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.



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. You must be able to tell from the way the motorcycle

reacts if you have tire failure. If one of your tires suddenly loses air, react quickly to keep your balance. Stop riding and check the tires as soon as possible.

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 the handlegrips firmly, ease off the throttle, and keep a straight course.
- If braking is required, gradually apply the brake of the tire that isn’t flat, if you are sure which one it is.
- When the motorcycle slows, ride 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,” leave the road and stop.

After you have stopped, check the throttle cable carefully to find the trouble. Make certain the throttle works freely before you start riding 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 lighten the load, shift it. Center the weight lower and farther forward on the motorcycle. Make sure the tire pressure, spring preload, air shocks, and dampers are at the recommended settings 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 swing arm bearings. If none of these are the cause, have the motorcycle

thoroughly checked 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.
- Leave the road as soon as you can to fix the problem.

Chain Problems

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

- **Slippage** — If the belt/chain slips when you try to speed up or ride uphill, pull off the road. Check the belt/chain and sprockets. Tightening the belt/chain may help. Replace the belt/chain, sprockets, or both before riding again, if needed.
- **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. If the engine’s moving parts can’t move smoothly against each other, 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, add oil 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

Do everything you safely can do to avoid hitting an animal. If you are in traffic; however, remain in your lane.

FLYING OBJECTS

From time to time riders are struck by insects, cigarettes thrown from vehicles, 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 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 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 see a motorcycle by the side of the road. You don’t want someone else leaving the road at the same place you are.
- **Park carefully.** Loose or sloped shoulders, as well as soft ground, 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.
- Footrests for the passenger. Firm footing prevents your passenger from falling off and pulling you off, too.
- Protective equipment should be 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.

Motorcycles Towing Trailers

Motorcycles towing trailers:

- **Must** not exceed 55 mph.
- **Must** remain in the right lane unless it is a four lane highway, then the right two lanes, except when passing.
- Are not allowed in carpool lanes.

For more information, see the *Recreational Vehicles and Trailers Handbook* available online at **www.dmv.ca.gov** or you may obtain a copy at your local DMV office.

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 start 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), belts, 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. The heavier your passenger, the longer it will take to slow down, stop, and speed up—especially on a light-duty motorcycle. Your braking distance will increase due to the added weight.

- Ride a little slower, especially when taking curves, corners, or bumps.
- Begin slowing sooner 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 with traffic.

Warn your passenger of these special conditions: starting, stopping quickly, turning sharply, or riding over bumps. Turn your head slightly to make yourself understood, but keep your eyes on the road ahead.

Child Passengers

Riding with child passengers should only be done when the proper precautions are taken. The

motorcycle should be equipped with passenger foot-pegs and the child's feet **must** be able to reach them.

Children should wear a full-faced, DOT compliant, properly fitted helmet. It should fit snugly so, in the event of an accident, it does not come off.

Children should wear appropriate clothing, such as pants, a jacket made from a heavy material, and protective gloves that aid in the child's protection in an accident or fall. Shoes should also be durable, and fastened tight enough so that they will not come off in the event of a fall.

Restraint systems are available that secure a child passenger to the rider by means of a belt or harness. In the event of a fall, the child passenger will remain secured to the rider instead of being thrown free.

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. Stacking loads against a sissybar or frame on the back of the seat raises the

motorcycle's center of gravity and shifts its balance.

- **Keep the load forward.** Place the load over, or in front of, the rear axle. Tank bags keep loads forward, but use caution when loading hard or sharp objects. Make sure the tank bag does not interfere with handlebars or controls. Mounting a load behind the rear axle affects 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.
- **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. Ropes tend to stretch and knots can come loose, permitting the load to shift or fall.
- **Check the load.** Stop and check the load 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. Assign a lead and a drag (tail) rider. Both riders should be experienced and familiar with group riding.

Keep the Group Small

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

Keep the Group Together

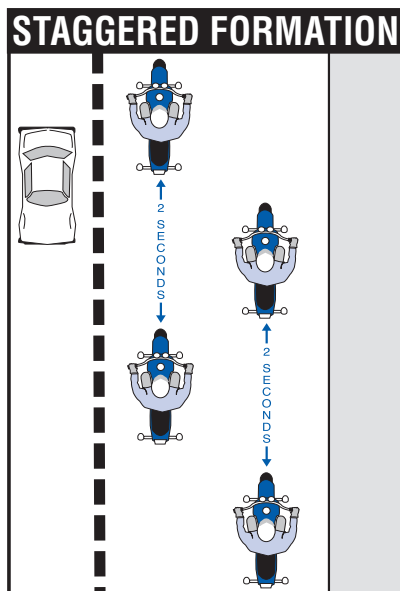
- **Plan.** The leader should look ahead for changes and signal early so there is plenty of time for everyone to follow. Start lane changes early to permit everyone to complete the lane change safely.
- **Put beginners up front.** Place inexperienced riders behind the leader so the more experienced riders can watch them.
- **Monitor those behind.** Let the last rider 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 together.
- **Know the route.** Make sure everyone knows the route. Then, if someone is separated

he or she 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, this formation must be done properly.

- **Don't pair up.** Never operate directly alongside another rider. There is no place to go to avoid a vehicle or a hazard 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 portion of the lane while the second rider stays one second behind in the right portion of the lane. A third rider rides in the left portion of the lane two seconds behind the first rider. The fourth rider keeps 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 pulls out and passes when safe. After passing, the leader returns to the left portion of the lane and continues riding at “passing speed” to open room for the next rider.
- After the first rider passes safely, the second rider moves up to the left portion of the lane and watches for a safe chance to pass. After passing, this rider returns to the right portion of the lane and opens up room for the next rider.

– Some people suggest that the leader should move to the right portion of the lane after passing a vehicle. This is not a good idea. It encourages the second rider to pass and return to the lane 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.** Move into a single-file formation when riding curves, turning, or entering or leaving a highway.

BEING IN SHAPE TO RIDE

Riding a motorcycle is a demanding and complex task. Skilled riders pay attention to their 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, affect your ability to think clearly and to ride safely. As little as one alcoholic drink

can have a significant effect on your performance.

BLOOD ALCOHOL CONCENTRATION

Blood alcohol concentration (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.

“One drink” is a 1½-ounce shot of 80-proof liquor (even if mixed with nonalcoholic drinks), a 5-ounce glass of 12% wine, or a 12-ounce glass of 5% beer. These “one drink” equivalents change if you drink ale, malt liquors, or fortified wines or if you drink on an empty stomach, are tired, sick, upset, or have taken medicines or drugs.

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,

GET A DUI – LOSE YOUR LICENSE!

It is illegal to drive with a Blood Alcohol Content (BAC) of .08% or more (.04% for commercial vehicle drivers and .01% if under 21). Other factors, such as fatigue, medications or food may affect your ability to legally operate a vehicle. The table below gives an estimate of blood alcohol levels based on the number of drinks consumed, gender and body weight. **REMEMBER:** Even one drink is likely to affect your ability to drive safely!

<div><div></div><div>BLOOD ALCOHOL CONTENT (BAC) Table for Male (M) / Female (F)</div></div>												
Number of Drinks		Body Weight in Pounds								Driving Condition		
		100	120	140	160	180	200	220	240			
0	M	.00	.00	.00	.00	.00	.00	.00	.00	Only Safe Driving Limit		
	F	.00	.00	.00	.00	.00	.00	.00	.00			
1	M	.06	.05	.04	.04	.03	.03	.03	.02	Driving Skills Impaired		
	F	.07	.06	.05	.04	.04	.03	.03	.03			
2	M	.12	.10	.09	.07	.07	.06	.05	.05	Legally Intoxicated		
	F	.13	.11	.09	.08	.07	.07	.06	.06			
3	M	.18	.15	.13	.11	.10	.09	.08	.07	Legally Intoxicated		
	F	.20	.17	.14	.12	.11	.10	.09	.08			
4	M	.24	.20	.17	.15	.13	.12	.11	.10	Legally Intoxicated		
	F	.26	.22	.19	.17	.15	.13	.12	.11			
5	M	.30	.25	.21	.19	.17	.15	.14	.12	Legally Intoxicated		
	F	.33	.28	.24	.21	.18	.17	.15	.14			
<div>Subtract .01% for each 40 minutes of drinking. 1 drink = 1.5 oz. 80 proof liquor, 12 oz. 5% beer, or 5 oz. 12% wine.</div>												
Fewer than 5 persons out of 100 will exceed these values.												

at least one drink will remain in your bloodstream.

ALCOHOL AND THE LAW

In California, it is illegal for a person under 21 years of age to drive with a BAC that is 0.01 % or above AND for a person 21 years of age or older to drive with a BAC of 0.08% or above. It doesn't matter how sober you may look or act; a breath or blood test is what usually determines whether you are riding legally or illegally.

NOTE: The *California Driver Handbook* has additional information regarding driving under the influence (DUI) of alcohol and/or drugs. Law enforcement is being stepped up across the country in response to the senseless deaths and injuries caused by drinking drivers and riders.

MINIMIZE THE RISKS

Minimize the risks of drinking and riding by following the steps below:

- **Don't drink.** Once you start drinking, your resistance becomes weaker.
- **Don't ride.** If you are or have been drinking, **do not** drive your motorcycle.

FATIGUE

Riding a motorcycle is more tiring than driving a vehicle, especially

on a long trip. 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 alcohol or use drugs.** Artificial stimulants often result in extreme fatigue or depression as they start to wear off. You won't be able to concentrate on the task at hand.

MOTORCYCLE INSURANCE FACTS

The financial responsibility sections of the *California Vehicle Code* apply to all two-wheel vehicle owners and operators.

If you, as an operator, are involved in a collision which causes more than \$750 in property damage to one person, including yourself, or in which anyone, including yourself, is injured, no matter how slightly, you (or your insurance agent, broker, or legal

representative) must report the collision to DMV or your driver license may be suspended. The CHP or police will not make this report.

You must make this report within 10 days on the Report of Traffic Accident Occurring in California (SR1) form. You can get this form from any DMV or CHP office. This form is also available on the DMV's website at www.dmv.ca.gov. Refer to the *California Driver Handbook* for more information.

Check with your insurance company about your coverage before you buy or ride a motorcycle.

EVADING A PEACE OFFICER

Any person who willfully flees or attempts to evade a peace officer performing his or her duties is guilty of a misdemeanor punishable by imprisonment in a county jail for not more than one year (CVC §2800.1).

If a person is convicted of causing serious bodily injury during the course of a police pursuit (CVC §2800.3(a)), he or she is subject to:

- Imprisonment in a state prison for three, five, or seven years or in a county jail for not more than one year.

- A fine of not less than \$2,000 nor more than \$10,000.
- Both a fine and imprisonment.

If a person is convicted of killing anyone during the course of a police pursuit (CVC §2800.3(b)), he or she is subject to imprisonment in a state prison for four, six, or ten years.

TREAD LIGHTLY!

- The U.S. Forest Service (USFS), Bureau of Land Management (BLM), and California Department of Parks and Recreation (CDPR) would like you to **TREAD LIGHTLY!** **Obtain a travel map** from your local USFS or BLM office, or regulations from other public land agencies. Learn the rules and follow them.
- **Avoid running over young trees**, shrubs, and grasses—this can damage or kill them.
- **Stay off soft, wet roads** and trails readily torn up by vehicles.
- **Travel around meadows**, steep hillsides, stream banks, and lake shores easily scarred by churning wheels.
- **Resist the urge to pioneer** a new road or trail, or to cut across a switchback.

- **Stay away from wild animals** that are rearing young—or suffering from food shortages. The stress uses up their limited energy reserves.
- **Obey gate closures** and regulatory signs.
- **Stay out of designated wilderness areas.** Know where the boundaries are. Vandalism costs tax dollars.
- **Get permission to travel across private lands.** Respect landowner rights.

For more information, contact the Off-Highway Vehicle Division of the CDPR at **www.ohv.ca.gov**.

**PAGE LEFT
INTENTIONALLY
BLANK**

KNOWLEDGE TEST SAMPLE 1

1. What are the requirements for wearing a helmet?
 - a. Passengers only are required to wear helmets.
 - b. All motorcycle riders and passengers are required to wear helmets at all times.
 - c. Helmets are not required while driving on city streets.
2. Grabbing the front brake or jamming down on the rear brake:
 - a. Can cause the brakes to lock.
 - b. Is the best way to stop in an emergency.
 - c. Is the best way to slow down when the streets are wet.
3. Passengers on motorcycles should:
 - a. Put their feet on the ground when the motorcycle is stopped.
 - b. Not ride without a back rest.
 - c. Sit as far forward as possible without crowding you.
4. When riding with a group of motorcyclists, a staggered formation:
 - a. Is recommended at all times.
 - b. Should not be used when entering or exiting a highway.
 - c. Should be used when riding on curves.
5. Eye protection:
 - a. Is not needed if your motorcycle is equipped with a windshield.
 - b. Is only needed when riding in bad weather.
 - c. Should give a clear view to either side.
6. A primary cause of single vehicle motorcycle collisions is:
 - a. Motorcyclists' tendency to drive too fast for weather conditions.
 - b. Motorcyclists running wide in a curve or turn and colliding with the roadway or a fixed object.
 - c. Motorcyclists running off the road while trying to avoid a collision with another vehicle.
7. The best lane position for a motorcycle:
 - a. Is in the left part of the lane, next to the center line.
 - b. Is in the right part of the lane, next to the curb.
 - c. Can vary depending on road and/or traffic conditions.
8. When riding at night you should:
 - a. Move closer to the vehicle in front of you to use its lights to see farther down the road.
 - b. Keep driving at your normal speed because slowing down would increase the chance of being struck from behind.
 - c. Reduce your speed because it is harder to see something lying in the road.
9. You should operate the engine cut-off switch and pull in the clutch when:
 - a. The throttle is stuck and you can't free it.
 - a. You start to lose control in a curve.
 - b. The motorcycle starts to wobble.
10. To operate a moped you must have at least a _____ license.
 - a. Class M1
 - b. Class M2
 - c. Class C

ANSWERS: 1b, 2a, 3c, 4b, 5c, 6b, 7c, 8c, 9a, 10b

Slow down and pass safely.



CALIFORNIA PEDESTRIAN AND BICYCLIST
ENFORCEMENT AND EDUCATION PROJECT



Funding for this program was provided by a grant from the California Office of Traffic Safety, through the National Highway Traffic Safety Administration.

"Three Feet for Safety Act" establishes three feet as the standard minimum space required when passing a bicyclist.



KNOWLEDGE TEST SAMPLE 2

1. Upshifting or downshifting in a curve:
 - a. Should only be done if it can be done smoothly.
 - b. Is better than shifting before the curve.
 - c. Is the best way to control your speed.
2. To avoid confusing other drivers you should:
 - a. Increase the following distance between your motorcycle and the vehicle in front of you if you are being tailed.
 - b. Make sure your turn signal turns off after you finish a turn.
 - c. Use your horn only in emergency situations.
3. _____ is a major factor in collisions caused by motorcycles.
 - a. Following too closely.
 - b. Lane sharing.
 - c. Not being seen by other drivers.
4. If your motorcycle starts to wander back and forth while riding over metal bridge gratings you should:
 - a. Downshift immediately to a lower gear to improve traction.
 - b. Proceed in a zigzag pattern until you cross the bridge.
 - c. Relax, stay on course, and ride straight across.
5. If you must carry a load, it should be:
 - a. Either over or in front of the rear axle.
 - b. Carried on the gas tank in front of the driver.
 - c. Piled up against a sissy bar or frame on the back of the seat.
6. Grabbing the front brake or jamming down on the rear brake:
 - a. Can cause the brakes to lock.
 - b. Is the best way to stop in an emergency.
 - c. Is the best way to slow down when the streets are wet.
7. What is the best way to stay out of trouble while riding a motorcycle?
 - a. To see it coming by looking well ahead.
 - b. By avoiding high density traffic areas.
 - c. By increasing the following distance between your motorcycle and the vehicle in front of you.
8. A motorcycle rider has an advantage over an automobile driver when passing parked vehicles because:
 - a. A motorcycle can accelerate faster than a car.
 - b. A motorcycle rider can avoid the problems of opening doors and people stepping out from between vehicles by driving in the left part of the lane.
 - c. Motorcycles have a shorter stopping distance.
9. Brightly colored, reflective helmets and clothing:
 - a. Should only be worn while riding at night.
 - b. Can make motorcycle riders easier to see.
 - c. Do not increase a motorcycle rider's safety.
10. To execute a turn safely a motorcycle rider should always:
 - a. Lean the motorcycle in the direction of the curve or turn.
 - b. Slow down in the turn.
 - c. Turn using the handle bars only.

ANSWERS: 1a, 2b, 3a, 4c, 5a, 6a, 7a, 8b, 9b, 10a

**GET TRAINED
GET LICENSED
SURVIVE THE RIDE**



CMSP
**California Motorcyclist
Safety Program**

**A Program of the
California Highway Patrol**



www.californiamotorcyclist.com

1.877.RIDE.411

COMPLETION OF THE PROGRAM WAIVES DMV SKILLS TEST

**PAGE LEFT
INTENTIONALLY
BLANK**

**PAGE LEFT
INTENTIONALLY
BLANK**

Products or services provided by advertisers are not promoted or endorsed by DMV.

Name: _____

Address: _____

City, State, ZIP Code: _____