APPENDIX B

ITEM WRITERS' GUIDE FOR
MOTORCYCLE RIDING:
A PRELIMINARY OUTLINE

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- Prepared for -
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
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August 30, 1971

Adapted from HumRRO, Driver Education Task Analysis
Volume 1: Task Descriptions, NHTSA FH-11-7336
This is one of five documents covering the first phase of a two phase contract entitled "Development of a National Item Bank for Tests of Driving Knowledge" (NHTSA, FH-11-7616).

Other volumes in this series include:

The Technical Report
Handbook of Written Driver License Testing (including the test item pools)
Appendix A, Item Writers' Guide for Traffic Control Devices: A Preliminary Outline
Appendix C, Item Writers' Guide for Truck Driving: A Preliminary Outline

The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the U.S. Department of Transportation - National Highway Traffic Safety Administration. This report does not constitute a standard, specification or regulation.
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The Item Writers' Guide for Motorcycle Riding was developed to assist the authors in the identification of those aspects of motorcycle riding which appear to be different from the operation of four wheeled vehicles and critical to the operation of a motorcycle.

An extensive search of the available literature revealed that there is not much written about motorcycle riding and that material which is available speaks about motorcycle riding in general terms. Much of the literature available described those tasks necessary for learning how to ride, but said little or nothing about the tasks used in day to day operation. Thus it became apparent that a source document was necessary which detailed the procedures associated with a large number of motorcycle riding tasks.

Recently a document covering the operation of passenger car vehicles became available. The "HumRRO Driver Education Task Analysis" described in detail many of the tasks associated with operating passenger cars. A careful examination of this task analysis revealed that it would be suitable as a framework for a similar document on motorcycle operation. The Cycle Conservation Club of Michigan agreed to undertake the task of rewriting existing statements, deleting inappropriate statements, and adding new statements where applicable. The several hundred available motorcycle test items were used to verify the completeness of the document. Modifications were made where necessary. The document was then re-numbered, retaining as much of the original HumRRO structure as possible.

To serve as a check on the accuracy of the contents, and to obtain a rating of those areas of motorcycle operations which were substantially different from passenger car operation, the completed guide was sent to a group of motorcycle experts for their opinion. The changes they suggested were incorporated into
the final document.

In reading the Motorcycle Guide, several points should be kept in mind:

1. The Guide lists only those tasks associated with operating a motorcycle on the road.
2. The Guide, as now published, represents only a beginning in the development of a comprehensive motorcycle task outline.
3. The Guide closely parallels the HumRRO Driver Education Task Analysis, retaining much of the same outline and numbering schemes of the parent document.
4. The numbering scheme can provide some added clarification on the task differences between motorcycle and passenger car operation, i.e., numerical statements are essentially the same as in HumRRO. Alpha-numeric statements (those containing a letter somewhere in the series of numbers) are unique to the operation of motorcycles.

It is hoped that this guide will prove to be a useful source document for those developing motorcycle courses of study and examinations and will provide the impetus for a more comprehensive study of the motorcycle riding task.
Acknowledgements

The authors wish to express their deep appreciation to the following individuals for work performed relative to various aspects of this document.

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Mr. Lewis Buchanan, National Highway Safety Bureau

and to:

Human Resources Research Organization
HumRRO Division 1 (System Operation)
Alexandria, Virginia

for the Driving Education Task Analysis from which this document was adapted.
ON-ROAD BEHAVIOR

Basic Control Tasks
11 Pre-operative procedures 1
12 Starting 3
13 Accelerating 4
14 Steering 7
15 Speed Control 9
16 Stopping 11
17 Skid Control 14

General Driving Tasks
21 Surveillance 15
22 Compensating for Physical Limitations 17
23 Navigation 19
24 Urban Driving 20
25 Highway Driving 21
26 Freeway Driving 22
27A Carrying Passengers 23

Tasks Related to Traffic Conditions
31 Following 24
32 Passing 26
33 Entering and Leaving Traffic 29
34 Lane Changing 30
35 Parking 31
36 Reacting to Traffic 33
37A Driving with Other Motorcycles 41

Tasks Related to Roadway Characteristics
41 Negotiating Intersections 42
42 On-Ramps and Off-Ramps 43
43 Negotiating Hills 52
44 Negotiating Curves 54
45 Lane Usage 55
46 Road Surface and Obstructions/Hazards 56
47 Turnabouts 63
48 Off-Street Areas 64
49 Railroad Crossings, Bridges and Tunnels, Toll Plazas 66

Tasks Related to the Environment
51 Weather Conditions 69
52 Night Driving 71

Tasks Related to the Motorcycle
61A Carrying Packages or Luggage 73
62 Responding to Motorcycle Emergencies 74
63 Roadside Servicing 76

OFF-ROAD BEHAVIORS

Pre-Trip Tasks
71 Planning 77
73 Use of Alcohol and Drugs 79
74 Maintaining and Accommodating Physical and Emotional Condition 80

Maintenance
81 Routine Care and Servicing 81
82 Periodic Inspection and Servicing 84

Legal Responsibilities
91 Driver and Motorcycle Certification 86
92 Post-Accident Responsibilities 87
### Contents

#### Task Headings

### On-Road Behavior

#### Basic Control Tasks

<table>
<thead>
<tr>
<th>Task Heading</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Preoperative procedures</td>
<td></td>
</tr>
<tr>
<td>11-1 Before Mounting Motorcycle</td>
<td>1</td>
</tr>
<tr>
<td>11-2 Upon Mounting Motorcycle</td>
<td>2</td>
</tr>
<tr>
<td>11-3 Before Starting Engine</td>
<td>2</td>
</tr>
<tr>
<td>11-4 After Starting Engine</td>
<td>2</td>
</tr>
<tr>
<td>12 Starting</td>
<td></td>
</tr>
<tr>
<td>12-1 Prestarting</td>
<td>3</td>
</tr>
<tr>
<td>12-2 Starting &quot;Kickstart&quot; Cycle</td>
<td>3</td>
</tr>
<tr>
<td>13 Accelerating</td>
<td></td>
</tr>
<tr>
<td>13-1 Performs the Following Activities Without Removing Eyes from Roadway</td>
<td>4</td>
</tr>
<tr>
<td>13-2 Starting on a Hill From a Standing Position</td>
<td>4</td>
</tr>
<tr>
<td>13-3 Starting on Accumulated Snow or Otherwise Slippery Roadway</td>
<td>6</td>
</tr>
<tr>
<td>13-5 When Gearshift Lever Will Not Move to Position Desired</td>
<td>6</td>
</tr>
<tr>
<td>14 Steering</td>
<td></td>
</tr>
<tr>
<td>14-1 Directional Control</td>
<td>7</td>
</tr>
<tr>
<td>14-2 Turning</td>
<td>7</td>
</tr>
<tr>
<td>15 Speed Control</td>
<td></td>
</tr>
<tr>
<td>15-1 Varies Rotation of Throttle Twist-Grip to Maintain Constant Speed</td>
<td>9</td>
</tr>
<tr>
<td>15-2 Observes Speedometer to Check Speed</td>
<td>9</td>
</tr>
<tr>
<td>15-3 Downdshifts When Necessary to Maintain Speed</td>
<td>9</td>
</tr>
<tr>
<td>15-4 Keeps Motorcycle in Gear at all Times</td>
<td>9</td>
</tr>
<tr>
<td>15-5 Employs the Following Procedure When Extremely Slow Speeds Are Required, e.g., Maneuvering in Garage or Parking Lot</td>
<td>9</td>
</tr>
<tr>
<td>16 Stopping</td>
<td></td>
</tr>
<tr>
<td>16-1 Normal Stop</td>
<td>11</td>
</tr>
<tr>
<td>16-2 Rapid Stop</td>
<td>12</td>
</tr>
<tr>
<td>16-3 Emergency Stop</td>
<td>12</td>
</tr>
<tr>
<td>16-4 Emergency Downdshift</td>
<td>12</td>
</tr>
<tr>
<td>18 Skid Control</td>
<td></td>
</tr>
<tr>
<td>18-1 Anticipate Skid Producing Situations</td>
<td>14</td>
</tr>
<tr>
<td>18-2 Takes Preventative Measures to Avoid Skids</td>
<td>14</td>
</tr>
<tr>
<td>18-3 Detects Skidding</td>
<td>14</td>
</tr>
<tr>
<td>18-4 Attempts to Arrest Skid</td>
<td>14</td>
</tr>
<tr>
<td>18-6 Decelerates</td>
<td>14</td>
</tr>
</tbody>
</table>

#### General Driving Tasks

<table>
<thead>
<tr>
<th>Task Heading</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 Surveillance</td>
<td></td>
</tr>
<tr>
<td>21-1 General</td>
<td>15</td>
</tr>
<tr>
<td>21-2 Traffic Surveillance</td>
<td>15</td>
</tr>
<tr>
<td>21-3 Surveillance of Traffic Controls</td>
<td>15</td>
</tr>
<tr>
<td>21-4 Motorcycle Surveillance</td>
<td>15</td>
</tr>
<tr>
<td>22 Compensating for Physical Limitations</td>
<td></td>
</tr>
<tr>
<td>22-1 Temporary Conditions</td>
<td>17</td>
</tr>
<tr>
<td>22-2 Permanent Conditions</td>
<td>17</td>
</tr>
<tr>
<td>23 Navigation</td>
<td></td>
</tr>
<tr>
<td>23-1 Designates a Passenger, If Available, to Give Directions and to Look for Key Junctions and Final Destination</td>
<td>19</td>
</tr>
<tr>
<td>23-2 Memorizes Entire Route, or a Leg at a Time to Avoid Dependence on Maps While Driving</td>
<td>19</td>
</tr>
<tr>
<td>23-3 Maintains Awareness of Directions in Which Motorcycle is Moving to Effect Correct Turns When Road Signs Lack Information Needed</td>
<td>19</td>
</tr>
<tr>
<td>23-5 Confirms His Location Periodically By Identifying on the Route Natural and Man-Made Features Marked on the Map, to Include Rivers, Parks, Railroad Crossings, Buildings and Distinctive Contours of the Road</td>
<td>19</td>
</tr>
</tbody>
</table>
23-6 Anticipates Approach to Key Junctions
   Where Route Changes Direction or a Different Route is to be Followed
23-7 Checks Maps During Stops to Become Familiar With the Route Leg Ahead

24 Urban Driving
24-1 General
24-2 Commercial Areas
24-3 Residential Areas

25 Highway Driving
25-1 Driving on General Highways
25-2 Driving on Rural Highways
25-3 Driving on Mountainous Terrain
25-4 When Driving on Flat Straight Terrain for Extensive Periods, Follows Procedures to Ward off Effects of Monotonous Driving

26 Freeway Driving
26-1 When First Entering Main Roadway
26-2 When Moving With Traffic
26-3 When Approaching and Passing Interchanges
26-4 When Leaving the Freeway

27A Carrying Passengers
27A-1 Attempts to Carry a Passenger
27A-2 Modifies or Equips Motorcycle for Carrying Passenger
27A-3 Adjusts Motorcycle for Carrying Passenger
27A-4 Provides or Arranges for Protective Clothing and Gear for Passenger
27A-5 Instructs Passenger

Tasks Related to Traffic Conditions
31 Following
31-1 Maintains Adequate Following Distance from Lead Vehicle
31-2 Adjusts Speed to Changes in Speed of Lead Vehicle
31-3 Observes Traffic to Anticipate Changes in Lead Vehicle Velocity

32 Passing
32-1 Decides Whether to Pass (Two- or Three-Lane Roads)
32-2 Prepared to Pass
32-3 Changes Lane (See 34, Lane Changing)
32-4 Initiates Pass of Lead Vehicle
32-5 Passes With Minimum Delay
32-6 Returns to Driving Lane

33 Entering and Leaving Traffic
33-1 Entering Traffic
33-2 Leaving Traffic

34 Lane Changing
34-1 Decides to Change Lanes
34-2 Prepares to Change Lanes
34-4 Completes Lane Change

35 Parking
35-1 Seeks Parking Space
35-2 Determines Suitability of Space
35-3 Parks Motorcycle
35-4 Secures Motorcycle
35-7 Leaves Parking Space

36 Reacting to Traffic
36-1 Reacting to Other Traffic
36-2 Responding to Pedestrians and Other Road Users
36-3 Reacting to Collisions and Emergencies

37A Driving with Other Motorcycles
37A-1 General

Tasks Related to Roadway Characteristics
41 Negotiating Intersections
41-1 Approaches Intersection
41-2 Travels Intersection

42 On-Ramps and Off-Ramps
42-1 On-Ramps
42-2 Off-Ramps
43 Negotiating Hills
   43-1 Upgrades
   43-2 Downgrades

44 Negotiating Curves
   44-1 Observes for Curves
   44-2 Approaches Curves
   44-3 Drives Through Curve
   44-4 Leaves Curve

45 Lane Usage
   45-1 General
   45-2 Four Lane Roadway (or Two Lane Roadway One Way)
   45-3 Six (or more) Lane Roadway (or at Least Three Lane Roadway One Way)

46 Road Surface and Obstructions/Hazards
   46-1 Type of Road Surface
   46-2 Surface Irregularities
   46-3 Road Cover
   46-4 Roadway Edges
   46-5 Roadway Obstructions

47 Turnabouts
   47-1 U-Turns
   47-4 Where Turnabouts are Prohibited Accomplishes Equivalent Maneuver

48 Off-Street Areas
   48-1 Approaches Entrances to Driveways, Alleys, and Parking Lots
   48-2 Entering Driveway, Alley or Parking Lot
   48-3 Driving In Off-Street Areas
   48-4 Exiting Off-Street Areas

49 Railroad Crossings, Bridges and Tunnels, Toll Plazas
   49-1 Railroad Crossings
   49-2 Bridges and Tunnels
   49-3 Toll Plazas

Tasks Related to the Environment

51 Weather Conditions
   51-1 Limited Visibility
   51-2 Temperature
   51-3 Wind

52 Night Driving
   52-1 General
   52-2 Urban Driving
   52-3 Rural Driving
   52-4 Driving at Dusk/Dawn or on Dark Days
   52-5 Parking on Shoulder

Tasks Related to the Motorcycle

61A Carrying Packages or Luggage
   61A-1 In General, When Carrying Packages or Luggage

62 Responding to Motorcycle Emergencies
   62-1 Responding to Critical On-Road Emergencies
   62-2 Responding to Non-Critical On-Road Emergencies

64 Roadside Servicing
   64-1 Limits Roadside Servicing Activities to Corrections of On-Road Emergency Malfunctions That May Be Readily and Safely Accomplished at Roadside With a Minimum of Basic Tools Available
   64-2 When Motorcycle Requires Emergency Road Servicing
   64-3 Seeks Emergency Assistance When Motorcycle Is Disabled off Roadway and Cannot Be Serviced

Off-Road Behaviors

Pre-Trip Tasks

71 Planning
   71-1 Prepares for Emergencies
   71-2 Prepares for Long Trips
   71-3 Prepares for Urban Driving
   71-4 Prepares for Driving on Ice- or Snow-Covered Roadway
73 Use of Alcohol and Drugs
73-1 Alcohol
73-2 Drugs
74 Maintaining and Accommodating Physical and Emotional Conditions
74-1 In General, Periodically Has Physician Evaluate Fitness to Drive, Especially if Suffering a Permanent Disability
74-2 Vision
74-3 Hearing
74-4 Illness
74-5 Avoids Driving When in a Highly Emotional State
81 Routine Care and Servicing
81-1 Performs Routine Inspection of Motorcycle Condition Before Driving
81-2 Performs or Has Service Attendant Perform the Following at Least Once Per Month
81-3 Cleans and Inspects Motorcycle Body Exterior
81-4 Performs or Has Station Attendant Perform the Following Each Time the Motorcycle is Fueled
82 Periodic Inspection and Servicing
82-1 Checks Motorcycle Subsystem
82-2 Services Motorcycle Subsystem
91 Driver and Motorcycle Certification
91-1 Obtains a Driver’s License
91-2 Registers the Motorcycle
91-3 Complies with Safety Inspection Requirements, Where Applicable
92 Post-Accident Responsibilities
92-1 Stops Motorcycle Close to Scene
92-2 Sends for Police
92-3 Offers to Assist the Injured
92-4 Warns Other Traffic
92-5 Gathers and Exchanges Information for Accident Report
92-6 Reports Accident
Task 11: Pre-Operative Procedures

11-11 BEFORE MOUNTING MOTORCYCLE

11-11 If motorcycle is in an enclosed area, opens door
11-12A Grasps and balances motorcycle
11-12B Moves parking stand to storage position
11-12C Pushes motorcycle to open area and parks
11-13 Observes windshield, if any, and lights
11-13A Cleans dirty windshield and lights with cloth
11-13A1 Checks chain for proper tension and lubrication
11-13A2 May adjust chain with tools from kit on motorcycle
11-13B Checks adjustment of rear and front brake lever
11-13B1 May adjust linkage with tools or by hand
11-13C Checks stoplight for operation with rear brake (front brake if so controlled)
11-13D Checks for loose nuts, bolts, and parts
11-13D1 May tighten with tools from kit
11-13E Checks level of oil in tank or crankcase (if so designed)
11-13E1 May add oil
11-13F Checks level of fuel in tank
11-13F1 May add fuel (and oil if required to be mixed with fuel)
11-13G Check setting of rear spring/shock absorber units
11-13G1 May reset by hand or with tool
11-15 Visually checks tires for inflation status and abnormal conditions
11-15A May change tires to meet changing driving conditions
11-16A Adjusts angle of clutch and front brake lever to be in line with wrists and arms
11-17A Checks cargo if any (see 61, Carrying Packages or Luggage)
11-17A1 Makes sure it is secured
11-17A2 Makes sure it does not interfere with the operation of the motorcycle
11-17A3 Place as low on motorcycle as possible to keep center of gravity low
11-18A Checks clothing
11-18A1 Wears boots or other suitable footwear
11-18A2 Puts on protective head gear
11-18A3 Uses adequate eye protection (i.e., goggles, face shield)
11-18A4 At night wears white or light colored clothing
11-18A5 Wears heavy clothing to protect against the weather and falls
Pre-Operative Procedures

11-2 UPON MOUNTING MOTORCYCLE
11-22 Adjust mirror(s)
  11-221A Adjusts each mirror so that arms and shoulders of rider and passenger (if any) will not block view of road behind
11-24A Does not carry passengers if:
  11-24A1 Driver is inexperienced with motorcycles
  11-24A2 Motorcycle not equipped for passengers
11-24B Instructs passengers (if any) (e.g. see 27A, Carrying Passengers)
  11-24B1 Makes sure passenger will wear protective headgear
  11-24B2 Makes sure passenger will hold on tightly to driver’s hips or to handholds and straddle the seat.
  11-24B3 Makes sure passenger will keep feet on footrests
  11-24B4 Makes sure passenger will not interfere with motorcycle controls or balance
  11-24B5 Wait until engine is started and final check is made before mounting
  11-24B6 Make sure passenger is aware of his role (e.g., see Turning, 14-24B1)

11-3 BEFORE STARTING ENGINE
11-31A Makes sure that front brake lever is properly adjusted
  11-31A1 May adjust cable tension by hand
11-32A Checks condition of front brake cable
11-33A Checks condition of clutch cable
11-34A Turns fuel valve to “on”
11-35A Makes sure transmission is in neutral
11-36A Adjusts protective headgear and eye protection

11-4 AFTER STARTING ENGINE
11-41A Makes sure clutch lever is properly adjusted
  11-41A1 May adjust cable tension by hand or with tool from kit
11-42A Checks headlight, taillight, brake light and turn signal (if any) operation
  11-42B Checks front and rear brake - especially if unfamiliar with motorcycle
  11-42B1 May adjust cable tension with tool from kit
11-42C Invites passenger (if any) to mount
11-42D Turns headlight on during daytime driving
11-42E Checks horn
11-42F Makes sure kickstand is secured and will not interfere with making turns

11-43 At night
11-431 Turns on headlight
11-432 Flicks beam up and down to verify that both beams are operative (if so equipped)
11-433 Checks taillights
11-433A Makes sure headlight elevation is proper
  11-433A1 May adjust by hand or with tools from kit
11-434 Place headlight in appropriate beam position
Task 12: Starting

12-1  PRESTARTING

12-12  Sets gearshift lever

12-121  Cycles with starter gear on countershaft

12-1211  Places in neutral position

12-122  Cycles with starter gear on crankshaft

12-1221  Disengages clutch (usually left-hand grip) and
          holds until engine starts, or:

12-1222  Places gearshift lever in neutral position

12-12A  When engine is warm

12-12A1  Opens throttle 1/4 turn or full (right
         hand grip) depending on cycle

12-12B  If engine is cold

12-12B1  Operates tickler (if so equipped)

12-131  Operates choke or enrichment device (if so equipped)

12-15  Inserts ignition key and turns to "on" position (if so
       equipped)

12-151A  Does not turn to "lights on" or "emergency" position

12-2  STARTING "KICKSTART" CYCLE

12-21A  Turns folding pedal of kickstarter lever "out"

12-22A  "Finds" start of compression of stroke by pressing down
         and "ratcheting" lever

12-23A  Kicks down smartly and follows through with bodyweight
         on lever to spin engine

12-23B  Operates spark retard or compression release on large
         displacement engines (if so equipped)

12-24  Listens for sound of engine

12-241  If engine starts

12-2411  Opens and closes throttle to prevent stalling or racing

12-2411A  Returns kickstart lever and folding pedal to
           storage position

12-2412  Deactivates choke or enrichment device when engine
           is warmed up slightly

12-242  If engine sound is not heard

12-2421A  Checks ignition key, choke, etc., for proper position

12-2422A  Kicks starter again

12-25  If engine fails to start

12-251  Repeats starting procedure until engine starts

12-252  After several tries, or smell of gasoline is detected

12-2521  Opens throttle and holds

12-2522A  Kicks starter more vigorously, or pushes cycle while in
           gear to spin engine more rapidly

12-2523A  Closes fuel valve to reduce fuel level in carburetor
           and produce leaner air-fuel mixture

12-27  Allows engine to warm up by idling for a short period
<table>
<thead>
<tr>
<th>Task 13: Accelerating</th>
</tr>
</thead>
<tbody>
<tr>
<td>(See also 33, Entering and Leaving Traffic)</td>
</tr>
</tbody>
</table>

13-11  **PERFORMS THE FOLLOWING ACTIVITIES WITHOUT REMOVING EYES FROM ROADWAY**

13-11A  **Manual clutch**
13-11B  **Holds motorcycle from rolling with front brake (right hand)**
13-11C  **Holds motorcycle as vertical as possible with braking foot**
13-11D  **Shifts into first gear**
13-11E  **Places left hand on clutch**
13-11F  **Squeezes clutch lever**
13-11G  **Toes gearshift to put transmission in first gear position**
13-11H  **Opens throttle slightly (counterclockwise), releasing clutch lever slowly to the friction point at the same time**
13-11I  **Simultaneously releases front brake and returns feet to foot pegs**
13-11J  **As motorcycle moves forward slowly, opens throttle enough to prevent engine from straining or dying**
13-11K  **If engine begins to race, closes throttle slightly**
13-11L  **If engine begins to die, opens throttle slightly**
13-11M  **For small movements of motorcycle may control velocity by varying clutch lever**
13-11N  **Releases clutch completely and opens throttle until motorcycle gains adequate speed to shift to second gear**
13-12  **Shifts to second gear**
13-12A  **Squeezes lever (clutch) and closes throttle**
13-12B  **Toes gearshift lever to second gear position (refer to owner's manual for procedures appropriate to motorcycle)**
13-12C  **Simultaneously releases clutch lever and opens throttle**
13-12D  **After clutch lever is released, continues to accelerate until motorcycle gains adequate speed to shift into third gear**
13-13  **Shifts into third gear**
13-13A  **Squeezes clutch lever and closes throttle**
13-13B  **Toes gearshift lever to third position**
13-13C  **Simultaneously releases clutch lever and opens throttle**
13-13D  **After the clutch is released, opens throttle slightly to reach desired speed for riding or to shift into fourth gear (if available)**
13-14A  **Repeats last procedure to shift into fifth gear (if available)**
13-15A  **Regulate throttle to control speed or driving force**
13-16  **Automatic clutch**
13-16A  **Holds motorcycle from rolling with hand lever brake (right or left)**
13-16B  **Holds motorcycle as vertical as possible with braking foot**
13-16C  **Toes gear shift lever to place transmission in first gear**
13-16D  **Gradually eases pressure on brake lever and gently opens throttle**
13-16E  **Uses brake lever pressure to control forward movement of motorcycle when small precise movements are required**
13-16F  **Returns feet to foot pegs**
13-16G  **Releases brake lever completely and opens throttle slightly to reach desired speed for shifting to second gear**
PERFORMS THE FOLLOWING ACTIVITIES WITHOUT REMOVING EYES FROM ROADWAY

Automatic Clutch

13-126A Closes throttle and toes shift lever to second gear position
13-127A Repeats above procedure to shift into third and fourth gears (if available)
13-128A Regulates throttle to control speed and driving force

STARTING ON A HILL FROM A STANDING POSITION

13-21 Manual clutch – with engine running
13-211 Hold motorcycle from rolling with front brake (right hand)
13-212A Balances motorcycle with foot on same side as rear brake pedal (holds motorcycle as vertical as possible)
13-213 Squeezes clutch lever with left hand
13-214 Toes gearshift lever to place transmission in desired gear
13-214A Holds motorcycle from rolling with rear brake pedal
13-214B Releases front brake
13-214C Opens throttle to speed up engine and releases clutch lever to friction point
13-214D Releases rear brake pedal
13-215A On an upgrade – with stalled engine
13-215A1 Holds motorcycle from rolling with front brake (right hand)
13-215A2 Balances motorcycle with foot on same side as rear brake pedal (holds motorcycle as vertical as possible)
13-215A3 Toes gearshift lever to place transmission in neutral
13-215A4 Balances motorcycle with other foot (if necessary) and kickstarts engine
13-215A5 Squeezes clutch lever with left hand
13-215A6 Toes gearshift lever to place transmission in first gear (changing feet if necessary)
13-215A7 Opens throttle slightly to speed up engine
13-215A8 Balances motorcycle with gearshift foot
13-215A9 Holds motorcycle from rolling with rear brake pedal releases front brake
13-215A10 Releases clutch lever to friction point and opens throttle more
13-215A11 Releases rear brake pedal
13-215A12 Releases clutch lever as required to start motorcycle uphill
13-215A13 Opens throttle as required to prevent stalling
13-216A Adjusts throttle to regulate speed
13-216A1 Holds motorcycle from rolling with front brake (right hand)
13-216A2 Balances motorcycle with foot on same side as rear brake pedal (holds motorcycle as vertical as possible)
13-216A3 Squeezes clutch lever
13-216A4 Toes gearshift lever to place transmission in second gear
13-216A5 Balances motorcycle with gearshift foot
13-216A6 Holds motorcycle from rolling with rear brake
13-216A7 Releases front brake
13-216A9 Releases rear brake and lets motorcycle roll down hill – If a shallow grade, may need to give a slight push with gearshift foot
13-216A10 Releases clutch to friction point until engine spins
13-216A11 Adjusts throttle to regulate speed

5
Accelerating

STARTING ON A HILL FROM A STANDING POSITION

13-22  Automatic clutch - with engine running
13-221A Holds motorcycle from rolling with hand brake
13-221B Balances motorcycle with foot opposite shift lever
   (holds motorcycle as vertical as possible)
13-2221  Toes gearshift lever to place transmission in first gear
13-223  On an upgrade
13-2231  Opens throttle to pulling point of automatic clutch
13-2233  Releases hand brake and opens throttle to start
   motorcycle moving uphill
13-224  On a downgrade
13-2241  Releases brakes and accelerates

STARTING ON ACCUMULATED SNOW OR OTHERWISE SLIPPERY ROADWAY

13-31A  Holds motorcycle very upright with front wheel essentially
   straight
13-31B  Balances motorcycle with foot on brake side
13-32A  Places transmission in first gear
13-32B  Keeps both feet down to balance motorcycle until well under
   way
13-33  Releases clutch very slowly
13-34  Opens throttle gently to keep engine pulling slightly
13-35  Holds throttle steady until motorcycle picks up speed
13-35A  Shifts to higher gear when road surface permits
13-36  Avoids jerky throttle movements
13-37A  Tests rear brake gingerly to obtain a "feel" of the road
13-38A  Avoids use of front wheel brake
13-39A  Avoids turns which require leaning motorcycle

WHEN GEARSHIFT LEVER WILL NOT MOVE TO POSITION DESIRED

13-51A  Move motorcycle back and forth to rotate countershift
13-51B  Release clutch lever to beginning of friction point
to spin gears
13-51C  "Punch" gearshift lever firmly and release before trying
   again
13-52  Shift into neutral if safe and then shift into desired gear
Task 14: Steering

14-1 DIRECTIONAL CONTROL
14-11 Grasps handlebars
14-111 Places both hands on handgrips
14-112 For normal driving, places all four fingers around top and front of handgrip
14-113 Grasps handlebars firmly
14-12A Corrects errors in motorcycle heading by leaning the motorcycle in desired direction (and turning handlebars to maintain balance at slow speed)
   14-12A1 Makes small and gradual steering corrections by putting pressure on handlebars
14-122 Decreases magnitude of steering corrections as motorcycle velocity increases
14-13 Maintains correct position in lane
   14-131 Keeps eyes focused well ahead to anticipate steering corrections
   14-132A Generally keeps motorcycle in left half of lane by sighting well ahead to wear-track of left wheels of cars
   14-133 Moves to the right if necessary in presence of oncoming traffic
   14-134 When lane is bordered on both sides by objects, e.g., vehicles, islands, trees, etc.
   14-1341 Assesses ability to pass between obstructions
   14-1342A Keeps motorcycle as close as possible to center of space, considering need to lean motorcycle if necessary to turn

14-2 TURNING
14-21 Keeps eyes focused well ahead to anticipate turns
14-22 Signals for turn at appropriate point in advance of turn (see 34, Lane Changing, 33, Entering and Leaving Traffic, and 41, Negotiating Intersections for appropriate signal distances)
   14-221 Activates directional turn signal if available
   14-2211 Left for left turn
   14-2212 Right for right turn
   14-222 If directional signal is inoperative, or hand signal is otherwise required, use to signal intent
   14-2221 Extends left arm and hand straight out for left turn and points finger
   14-2222 Extends left arm out with arm bent straight up at elbow for right turn
14-2223 Observes response of other vehicles to signals
14-23 Observes intended path to make sure it is clear (see 34, Lane Changing; 33, Entering and Leaving Traffic; and 41, Negotiating Intersection)
14-24 Reduces speed as necessary for safe comfortable turn (see 44, Negotiating Curves; 41, Negotiating Intersection; and 23, Entering and Leaving Traffic)
   14-241 If necessary to shift gears, does so prior to turn, not during turn
14-24A Leans motorcycle (in direction of turn) an amount proportional to degree of turn and speed; for a right turn lift up on left handlebars and follow through with body when cycle leans. Use a similar procedure for left turns.
   14-24B Leans body in the direction of the turn
   14-24B1 Passenger, if any, only leans body in direction of turn with cycle
14-25A Adjusts pressure on handlebars as necessary to maintain or change path or balance
**Steering**

14-251. Keeps both hands on handgrips.
14-252A. Keeps foot on inside of turn ready to put down in case tires start to slip.
14-253A. If making a sharp turn at high speeds.
14-253A1. Apply brakes before turn (see Decelerates, 16-12).
14-253A2. Down shift prior to turn, if necessary.
14-253A3. Lean motorcycle and body(s) at same angle into the turn (if on loose, rough, or slippery surface, leans motorcycle more than body).
14-253A4. May accelerate slightly to maintain traction and balance during turn.
14-26A. Adjusts degree of turn as necessary to maintain required path.
14-27A. Straightens motorcycle to achieve desired heading.
14-27A1. Before desired heading is attained, begins to decrease amount of lean and degree of turn of handlebars by adjusting pressure on inside of handlebars.
14-27A2. May put foot down on inside of turn if:
14-27A21. Motorcycle velocity is slow.
14-27A22. Tires break traction and start to slide.
14-27A4. When desired heading is achieved.
14-28. Resumes normal speed when turn has been completed.
14-28A. Returns turn signal switch to center position.
14-29. Checks turn signal switch to make sure it is off.
Task 15: Speed Control

15-1 VARIIES ROTATION OF THROTTLE TWIST-GRIP TO MAINTAIN CONSTANT SPEED
15-11 Attempts to avoid fluctuations in speed when not necessitated by traffic situation
15-12 Attempts slight changes in throttle rotation to avoid abrupt acceleration or deceleration
15-13 Maintains speed of traffic flow
15-14A Keeps wrists level with handlegrips so sudden jolt will not cause driver to open the throttle

15-2 OBSERVES SPEEDOMETER TO CHECK SPEED
15-21 Checks speed periodically
15-22 Checks speed whenever there is a change in legal limit
15-23 Checks speed frequently after speed reduction which follows a period of sustained high speeds

15-3 DOWNSHIFTS WHEN NECESSARY TO MAINTAIN SPEED (see 41, Negotiating Hills, and 16, Stopping)

15-31 Manual Clutch
15-311 Rotates throttle twist-grip forward at top
15-312 Places toe against gearshift lever (some motorcycles downshift by lifting lever)
15-313 Squeezes clutch lever
15-314 Toes gearshift lever to place transmission in next lower gear
15-316 Releases clutch gradually
15-3161 If motorcycle begins to decelerate sharply, squeezes clutch lever, opens throttle briefly to speed up engine, releases clutch gradually
15-317 Releases clutch completely
15-318 Applies sufficient throttle rotation to maintain desired speed
15-319A Shifts to first gear while still moving if stopping or nearly stopping

15-32 Automatic Clutch
15-321 Rotates throttle forward at top (clockwise)
15-322 Moves gearshift lever to place transmission in next lowest gear range
15-323 Opens throttle enough to maintain desired speed

15-4 KEEPS MOTORCYCLE IN GEAR AT ALL TIMES
15-41 Does not place transmission in neutral position to "coast"

15-5 EMPLOYS THE FOLLOWING PROCEDURE WHEN EXTREMELY SLOW SPEEDS ARE REQUIRED, E.G., MANEUVERING IN GARAGE OR PARKING LOT

15-51 For manual clutch motorcycle
15-511 Opens throttle briefly and intermittently just enough to keep engine from dying
15-512 Releases clutch lever just up to point where vehicle begins to move
15-513 Controls speed by varying the pressure on clutch lever releasing for faster movement and squeezing for slower movement
15-514A Keeps both feet ready to put down if speed becomes too slow for balance
Speed Control

EMPLOYS THE FOLLOWING PROCEDURE WHEN EXTREMELY SLOW SPEEDS ARE REQUIRED, E.G. MANEUVERING IN GARAGE OR PARKING LOT

15-52  For automatic clutch motorcycle
15-521 Places right hand on brake lever, lightly
15-522 Opens throttle with right hand to speed up engine until clutch "pulls" to move motorcycle
15-523 Controls speed by regulating pressure on brake
15-524A Keeps both feet ready to put down if speed becomes too slow for balance
Task 16: Stopping

16-1 NORMAL STOP
16-11 Prepares to stop
16-111 Checks rearview mirror for following traffic
16-112 "Covers" brake
16-1121A Places fingers of right hand firmly over the brake lever
16-1122 Applies brake slightly to flash brake light
16-113 Gives hand signal when necessary
16-1131 If driving in bumper-to-bumper traffic or the vehicle to the rear is close enough to constitute a hazard
16-1132 If motorcycle stop light is inoperative
16-1133 If required by law
16-1134 If driving under conditions where following drivers' detection of stop lights may be impaired
16-1134-1 If driving into sunglare or glare from artificial illumination
16-1134-2 If stop lights may be obscured by snow, dirt, dust or mud
16-114 Initiates hand signal in advance of decelerating if possible
16-115 Uses appropriate hand signal in advance of decelerating or stopping
16-1151 Extends left arm from shoulder with hand open in vertical plane
16-1152 Lowers arm to approximately 45-degree angle from horizontal
16-12 Decelerates
16-121 Initiates deceleration well in advance of requirement
16-1211 Rotates throttle twist-grip forward at top
16-1211A Keeps motorcycle in near vertical position
16-1212A Depresses brake pedal firmly and gradually to apply rear brake first then squeezes front brake lever gently
16-1212A-1 Uses extreme care in application of front brake
16-122 Judges rate of deceleration
16-1221 If not slowing quickly enough, depresses rear brake more firmly and increases pressure on front brake
16-1222A If slowing too quickly, eases brake pedal pressure slightly and releases or reduces pressure on front brake
16-123A Compensates for effects of passenger or cargo
16-123A1 Allows greater distance to decelerate and stop
16-123A2 Is aware that motorcycle is more difficult to control at lower speeds
16-13 Comes to stop
16-131A Downshifts before complete stop
16-131A1 Squeezes clutch before moving shift lever
16-131A2 Releases clutch between gearshifts to use engine braking
16-131A3 Holds clutch disengaged after reaching first gear or when speed nears zero
16-132 As velocity nears zero
16-132A Shifts transmission to first gear
16-132A1 Releases front brake
16-132A2 Applies rear brake lightly to bring motorcycle to a smooth stop

11
### Stopping

#### NORMAL STOP
- **16-1324A** Puts gearshift foot down to balance motorcycle
- **16-1324A-1** Does not permit passenger to support or balance motorcycle
- **16-133** Allows extra headway between motorcycle and vehicle ahead when stopping on an upgrade
- **16-14** Maintains stop
- **16-141A** Maintains firm pressure on brake pedal
- **16-141A1** May apply hand brake for stop on hill
- **16-142** If stop is more than a few moments duration
- **16-1421** Shifts into neutral
- **16-1422** Releases clutch
- **16-1423** Maintains brake pressure

#### RAPID STOP
- **16-2** Signals traffic behind if time permits
- **16-21** Taps brake several times to flash brake light
- **16-22** Grasps handlebars firmly
- **16-22A** Grasps tank of cycle with knees
- **16-23A** Applies rear brake firmly
- **16-23B** Applies front brake gently and increases pressure short of sliding front wheel
- **16-24** If motorcycle begins to skid at rear wheel
- **16-241A** Releases front brake
- **16-242A** Balances motorcycle by steering with front wheel
- **16-243A** Reduces pressure on rear brake
- **16-244A** Applies both brakes again when safely under control
- **16-25A** Squeezes clutch lever and downshifts if time permits

#### EMERGENCY STOP
- **16-3** Signals traffic behind if possible (see 16-21 above)
- **16-31** Grasps handlebars firmly
- **16-32A** Grasps tank of cycle with knees
- **16-33A** Applies front and rear brakes at the same time, avoiding sliding front wheel
- **16-33A1** Balances motorcycle by steering while rear wheel slides
- **16-33A2** On dry pavement, applies a series of short jabs with both brakes up to sliding point when balance is under control
- **16-33A3** On wet pavement, snow, ice, loose gravel, applies front brake with great caution and releases when front wheel sliding is felt
- **16-33A4** Puts foot down on following side if motorcycle goes into sideways skid

#### EMERGENCY DOWNSHIFT
- **16-4** Uses downshift technique to decelerate motorcycle when required (see 43, Negotiating Hills and 46, Road Surfaces and Obstructions/Hazards)
- **16-41** Rotates throttle forward at top
- **16-42A** When motorcycle slows to shifting speed for a particular gear
- **16-431** Downshifts to next lower gear as described under 15, Speed Control
- **16-432A** If motorcycle begins to decelerate too sharply, squeezes clutch lever
- **16-433A** Gradually releases clutch lever until motorcycle speed and engine speed are synchronized
- **16-434A** As motorcycle slows, repeats downshift to lower gears
Stopping

EMERGENCY DOWNSHIFT

16-45  Applies brakes firmly
16-451  When motorcycle velocity reaches 10 miles per hour
16-4511 Depresses clutch
16-4512A Depresses rear then front brake until motorcycle is stopped
Task 18: Skid Control

18-1 ANTICIPATE SKID PRODUCING SITUATIONS SUCH AS:
18-11 Curves or turns at excessive speed
18-12 Surface conditions providing a low coefficient of friction, i.e., ice, snow, water, oil, gravel, silt, sand and wet leaves (see 46-3, Road Cover)
18-13 Excessive rate of deceleration

18-2 TAKES PREVENTIVE MEASURES TO AVOID SKIDS
18-21 Enters curves or turns at moderate speeds
18-22 When driving on slippery surfaces, avoids abrupt changes in motorcycle velocity or direction of movement
18-23 Attempts to avoid panic stops or hard braking if possible

18-3 DETECTS SKIDDING
18-31 Notices discrepancy between motorcycle frame heading and path angle (direction motorcycle is actually moving)
18-32 Notices lack of deceleration upon braking

18-4 ATTEMPTS TO ARREST SKID

18-41A REAR WHEEL SKID
18-41A1 Reacts to change in balance equilibrium of cycle and steers front wheel in direction of skid to maintain balance
18-41A2 Maintains engine power short of spinning rear wheel
18-41A3 Shifts weight on footpegs and seat to maintain balance
18-41A31 Puts foot down on following side if necessary to maintain balance
18-41A4 Leans cycle more than body to allow for balance correction when rear tire "bites in" at end of skid

18-42A FRONT WHEEL SKID
18-42A1 Releases front brake instantly and completely
18-42A2 Corrects degree of turn of front wheel to match traction available
18-42A3 Shifts weight on footpegs and handlebars to maintain balance
18-42A31 Puts foot down on following side if necessary to maintain balance
18-42A4 Applies rear brake to decelerate and match slip rate of rear wheel to front wheel and to transfer weight to front wheel

18-6 DECELERATES
18-61 Brakes only:
18-611 After steering control is re-established
18-612 When, or just before motorcycle is properly aligned
18-62A On dry surfaces, applies front and rear brakes
18-63A On slippery surfaces, applies rear brake pedal gently and avoids use of front brake
18-64 Continues decelerating until motorcycle is traveling at a speed appropriate to conditions
Task 21: Surveillance

21-1 GENERAL

21-11 Visual

21-111 Continuously scans surroundings on and off roadway, shifting
gaze frequently

21-111A Takes full advantage of unobstructed vision

21-112 Looks well ahead and to center of lane

21-1121 As speed increases, focuses at farther distances

21-1122 In a city, views road ahead one full block

21-1123 In rural areas, views road ahead about one-half mile

21-113A Avoids fixating on road surface immediately forward of
front wheel except when negotiating hazardous surface

21-114 Watches for grease and oil spots on roadways

21-12 Auditory

21-121 Attempts to distinguish unusual sounds and noises from
usual traffic hum, including sounds of rapid acceleration,
screeching tires, collisions, horns, whistles, and other
sudden loud noises

21-122 Looks in direction from which noise comes, through
mirrors if from rear

21-123 Notes whether noise is continuous or intermittent

21-125 Notes whether noise intensity is increasing or decreasing
as an indication of motorcycle approaching or leaving source

21-126 Detects and identifies noise

21-13 Olfactory

21-131 Upon smelling gas, oil, smoke, or burning rubber, seeks
to determine whether odor is from the environment,
another vehicle, or the motorcycle

21-2 TRAFFIC SURVEILLANCE

21-21 Avoids fixing attention on any one thing

21-22 Responds promptly to attention-grabbing situation so eyes
can move again

21-23 Observes traffic behind by glancing through rearview mirror(s)
and looking over shoulder frequently

21-25 Observes traffic from the side (see 41, Negotiating Inter-
sections)

21-251 Notes vehicles moving in same direction as motorcycle in
adjacent lanes

21-26 Watches other drivers' driving behavior for clues to how
they react (e.g., late and suddenly)

21-261A Assume drivers of other vehicles do not see you

21-262A Try to anticipate unlikely or unexpected events

21-263A Considers other driver first, regardless of who has right
of way

21-3 SURVEILLANCE OF TRAFFIC CONTROLS

21-31 Observes all official road signs, which provide warnings,
information, and regulations

21-310 Checks that motorcycle is moving within posted speed limit

21-311 Anticipates passing or being passed at upcoming passing zone

21-32 Observes traffic lights well in advance of required response
(see 41-142, Observes traffic lights)

21-321 In urban areas, observes string of lights for several blocks

21-33 Observes pavement markings
SURVEILLANCE OF TRAFFIC CONTROLS

21-331 Notes whether center and lane lines are solid or broken

21-332 Notes arrows or wording designating lane restrictions, to include direction of turning, through or slow traffic

21-4 MOTORCYCLE SURVEILLANCE

21-41 Checks instrument panel displays regularly to keep abreast of motorcycle's operating status

21-411 Notes position of speedometer needle to determine motorcycle speed

21-412A Notes tachometer reading when in lower gears (if so equipped) or listens to engine

21-413A Notes indicator lights for neutral, top gear, high beam (if so equipped)
Task 22: Compensating for Physical Limitations

22-1 TEMPORARY CONDITIONS

22-11 Takes precautions to avoid eye strain when driving for prolonged periods

22-111 Shifts eyes easily over whole area of vision rather than holding in a steady fixed position

22-112 Occasionally stops motorcycle off roadway and closes eyes to help relieve eye fatigue

22-112A Uses good face shield or goggles to keep wind out of eyes

22-113 Wears sunglasses on bright days to reduce glare

22-114 Avoids looking into oncoming headlights at night

22-12 Takes precautions to prevent or offset fatigue and drowsiness while driving

22-121 Limits driving to physical capabilities

22-122A Wears good windproof clothing

22-124 Varies speed regularly to overcome hypnosis caused by sleepiness or uninterrupted monotonous driving

22-126A Pulls over to side of road or other rest area at least every hour

22-126B Takes brief rest followed by walking a few hundred yards before driving again

22-126C Exercises vigorously to limber up

22-126D Drinks coffee, tea, or coke

22-127 Maintains greater safety margin

22-127A Reduces speed

22-127B Maintains greater following distance

22-127C Allows greater stopping distance

22-13 Takes precautions when driving after drinking (see 73-1, Alcohol)

22-131 Accepts the fact of impaired performance regardless of feelings of well being and expertise

22-132A Drives more slowly than normal but not much below average traffic speed

22-133A Keeps near or in the left wheel track of the right lane

22-134 Watches surrounding traffic situation closely

22-135 If possible, isolates motorcycle from other traffic by increasing following and lateral distances

22-138 Takes other measures to offset effects of fatigue (see 22-12 above)

22-2 PERMANENT CONDITIONS

22-21 Visual

22-211 Uses tinted lenses to compensate for sensitivity to light or glare during daytime driving

22-212 Wears corrective lenses if required for normal vision

22-212A If glasses are not worn all day, uses strong protective case for storage

22-212B Carries second pair of corrective lenses for emergency use

22-213 Drives more slowly and allows additional following space if depth perception is faulty

22-214 Moves eyes continually to left and right to compensate for tunnel vision

22-215 Uses specific procedures to compensate for color vision weakness
### Compensating for Physical Limitations

**PERMANENT CONDITIONS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-2151</td>
<td>Attends very closely to actions of others at intersections</td>
</tr>
<tr>
<td>22-2152</td>
<td>Learns the national standard arrangement of signal positions</td>
</tr>
<tr>
<td>22-2153</td>
<td>Interprets traffic signs and markers by shape (see 21-3, Surveillance of Traffic Controls)</td>
</tr>
<tr>
<td>22-22</td>
<td>Compensates for hearing defects by:</td>
</tr>
<tr>
<td>22-221</td>
<td>Greater use of peripheral and side vision</td>
</tr>
<tr>
<td>22-222</td>
<td>Frequent sweeping eye movements</td>
</tr>
<tr>
<td>22-223</td>
<td>Additional use of rearview and side mirrors</td>
</tr>
</tbody>
</table>
Task 23: Navigation
(See 71-2, Prepares for Long Trip and 71-3, Prepares for Urban Driving)

23-1 DESIGNATES A PASSENGER, IF AVAILABLE, TO GIVE DIRECTIONS AND TO LOOK FOR KEY JUNCTIONS AND FINAL DESTINATION

23-2 MEMORIZES ENTIRE ROUTE OR A LEG AT A TIME TO AVOID DEPENDENCE ON MAPS WHILE DRIVING

23-3 MAINTAINS AWARENESS OF DIRECTION IN WHICH MOTORCYCLE IS MOVING TO EFFECT CORRECT TURNS WHEN ROAD SIGNS LACK INFORMATION NEEDED

23-4A MAY TAPE MAP TO FUEL TANK FOR REFERENCE

23-5 CONFIRMS HIS LOCATION PERIODICALLY BY IDENTIFYING ON THE ROUTE NATURAL AND MAN-MADE FEATURES MARKED ON THE MAP, TO INCLUDE RIVERS, PARKS, RAILROAD CROSSINGS, BUILDINGS AND DISTINCTIVE CONTOURS OF THE ROAD

23-6 ANTICIPATES APPROACH TO KEY JUNCTIONS WHERE ROUTE CHANGES DIRECTION OR A DIFFERENT ROUTE IS TO BE FOLLOWED

23-61 Checks odometer to compute number of miles remaining to next junction

23-62 Estimates time remaining to next junction

23-63 Scans roadside for signs in advance of junction

23-64 Identifies interstate, federal (U.S.) and state routes by the shape of the route signs

23-65 Interprets direction of interstate and U.S. routes by their numbers

23-66 Watches for signs providing additional information as motorcycle gets closer to junction

23-7 CHECKS MAPS DURING STOPS TO BECOME FAMILIAR WITH THE ROUTE LEG AHEAD

23-8 IF DISORIENTED, RETURNS TO LAST CONFIRMED LOCATION

23-81 Reviews map-roadway association

23-82 Asks directions from police officer, service station attendant, or other local resident

23-83 Navigates "as the crow flies" if necessary and searches for signs that lead to desired route
Task 24: Urban Driving

24-1 GENERAL

24-11 Minimizes distractions
24-111 Within the motorcycle passenger unit
24-111A Wears proper clothing to avoid wind-slapping, etc.
24-111B Converses little, if at all, with passengers
24-112 From the environment
24-1121 Avoids sightseeing, reading advertisements and theater marquees, and looking at store window displays
24-1122 Seeks out traffic lights possibly "embedded" in light from neon sign
24-1123 Ignores activity on the sidewalk that has no impact on driving

24-12 Drives slowly and evenly
24-121 Drives a maximum of 30 to 35 miles per hour
24-122 Paces speed to progressive light system and traffic
24-123 Avoids hurry-up-and-wait actions from intersection to intersection

24-13 Positions motorcycle in lane offering best movement and visibility (see 45, Lane Usage)

24-14 Looks for signs and pavement markings restricting use of lanes, turning, and direction of movement, as arrows designating one-way streets (see 21, Surveillance)

24-15 If necessary, effects turn by indirect procedures (see 41, Negotiating Intersections and 47, Turnabouts)

24-2 COMMERCIAL AREAS

24-21 Watches for pedestrian-operated vehicles (e.g., pushcarts and street vendors) entering the roadway

24-22 Watches for vehicles emerging from driveways and alleys obscured by buildings, parked vehicles and pedestrian traffic on the sidewalk

24-23 Watches for pedestrian traffic, particularly during rush and noon hours

24-3 RESIDENTIAL AREAS

24-31 Generally limits speed to 25 miles per hour

24-32 Watches for pedestrians, particularly children who may dart into the street to cross or retrieve a toy

24-33 Watches for children using the street as a play area

24-34 Notes streets designated as "play streets"
24-341 Enters play street if at destination
24-342 Does not use play street for through movement

24-35 Drives cautiously near schools, playgrounds, and parks
Task 25: Highway Driving

25-1 DRIVING ON GENERAL HIGHWAYS
25-11 Drives at slower speed when roadway is winding or narrow, when there are signalized intersections, and when roadside clearance is at a minimum
25-12 Watches for hidden traffic, pedestrians or animals obscured from view by nearby roadside structures, trees or dense vegetation
25-13 Maintains maximum distance from guard rails and median barriers without interfering with other traffic
25-14 Uses median only for emergency stops
25-15 Crosses medians only at designated crossovers

25-2 DRIVING ON RURAL HIGHWAYS
25-21 Anticipates poorer road surface, hills, sharp curves, unmarked intersections, fewer warning signs, more view obstructions, and slow-moving farm machinery
25-22 Adjusts speed to that of traffic

25-3 DRIVING IN MOUNTAINOUS TERRAIN
25-31A Steers just right of center of roadway except when meeting traffic
25-32 Watches for sudden changes in direction, elevation and condition of roadway
25-321 Looks for posted speed limit and warning signs
25-322 Watches for rock slides, washouts, and other dangers
25-33 Refrains from sightseeing while driving

25-4 WHEN DRIVING ON FLAT STRAIGHT TERRAIN FOR EXTENSIVE PERIODS, FOLLOWS PROTOCOLS TO WARD OFF EFFECTS OF MONOTONOUS DRIVING (see 22-1, TEMPORARY CONDITIONS)
WHEN FIRST ENTERING MAIN ROADWAY:

- Stays in right lane until motorcycle achieves speed of through traffic
- Makes conscious effort to maintain speed commensurate with traffic flow
- Frequently checks rearview mirror for vehicles closing fast as a sign that motorcycle speed may be too slow for traffic flow

WHEN MOVING WITH TRAFFIC:

- Selects lane(s) relative to motorcycle's speed, maneuvers, and traffic flow (see 45, Lane Usage)
- Selects speed on the basis of posted limit, weather and light conditions, and traffic flow and volume
- Under normal conditions, drives no slower than 15 miles per hour below the posted limit
- Scans traffic situation and roadway contour well ahead in addition to watching vehicles surrounding motorcycle (see 21-2, Traffic Surveillance)
  - Watches for vehicle trapped behind slow-moving vehicles, for trapped driver may suddenly enter motorcycle's lane
  - Checks for vehicles in adjacent lane(s) in case lane is needed for maneuvering or passing
  - Checks rearview mirror regularly to determine location of following vehicles and checks over shoulders to determine positions of adjacent vehicles
  - Drives with special caution when in heavy outbound traffic from urban areas
  - Drives cautiously when approaching crests and sags since visibility is decreased

WHEN APPROACHING AND PASSING INTERCHANGES

- Moves to passing lane when direction of movement is in two lanes
- Moves from right to middle lane with three or more lanes
- If continuing in right lane
  - Drive cautiously
  - Decelerates if lateral movement of traffic ahead so demands
  - Watches for vehicle in deceleration lane to swing back into lane at last minute
  - Drops back if there is a vehicle in left lane blocking evasive action
- Returns to through or right lane after passing interchange

WHEN LEAVING THE FREEWAY: (see 42-2, Off-Ramps)

- Does not back up on roadway when wrong exit is taken
- For emergency stops, drives onto shoulder or median
- If misses freeway exit, continues to next exit

*New statement
Task 27A: Carrying Passengers

27A-1 ATTEMPTS TO CARRY A PASSENGER ONLY IF:
27A-11 The motorcycle is designed for such
27A-12 The motorcycle can be modified or is equipped for such
27A-13 The motorcycle operator is a well experienced driver

27A-2 MODIFIES OR EQUIPS MOTORCYCLE FOR CARRYING PASSENGER BY
27A-21 Installing proper seat if not so equipped
27A-22 Installing foot pegs for the passenger position
27A-23 Installing either optional seat strap or hand grips if required by law
27A-24 May also install optional heavy duty springs and/or shock absorbers

27A-3 ADJUSTS MOTORCYCLE FOR CARRYING PASSENGER
27A-31 Adds additional air to rear tire if weight of passenger causes tire to bulge excessively (see owners manual)
27A-32 Adjusts rear shocks if possible and needed

27A-4 PROVIDES OR ARRANGES FOR PROTECTIVE CLOTHING AND GEAR FOR PASSENGER
27A-41 Helmet
27A-42 Goggles or face shield
27A-43 Wind proof jacket
27A-44 Heavy trousers
27A-45 High boots or good shoes
27A-46 Gloves

27A-5 INSTRUCTS PASSENGER
27A-51 To stay off motorcycle until
27A-511 Motorcycle engine is started
27A-512 Operator instructs passenger to board
27A-52 When boarding motorcycle to:
27A-521 Straddle seat
27A-5211 Not to ride side saddle
27A-522 Sit comfortably
27A-523 Adjust clothing
27A-524 Hang on
27A-5241 Hands gripping on driver's nips
27A-525 Place feet on foot pegs
27A-526 Relax-don't tense up
27A-527 Don't touch muffler
27A-528 Signal when ready
27A-53 When motorcycle is underway
27A-531 Not to talk unless it is necessary
27A-532 Lean with motorcycle
27A-5321 Leans forward slightly as motorcycle accelerates
27A-5322 Leans backward slightly as motorcycle decelerates
27A-533 Not to bounce around or shift weight -- sit quietly
27A-534 Does not drag feet or otherwise attempt to balance or control motorcycle (see 27A-532)
Task 31: Following

31-1 MAINTAINS ADEQUATE FOLLOWING DISTANCE FROM LEAD VEHICLE

31-11A Maintains appropriate following distance behind lead vehicle to allow for stopping motorcycle in advance of lead vehicle if necessary (further than if driving a car i.e., 3 seconds instead of 2)

31-12 Maintains at least 500 feet separation distance behind emergency vehicles

31-13 Increases separation distance

31-131 When following

31-1311 Vehicles that obscure forward visibility

31-1312 Vehicles which stop frequently (transit and school buses, post office and delivery vans)

31-1314 Vehicles carrying protruding loads

31-1315 Vehicles driving erratically

31-132 On wet or icy roads

(Operation on wet or icy roads is not recommended, but is included here as the possibility may arise)

31-133 Under conditions of poor visibility (see 51, Weather)

31-134 In conditions of darkness (see 52, Night Driving)

31-135 Where traffic intersects, merges or diverges

31-136 Where road ahead is not visible

31-2 ADJUSTS SPEED TO CHANGES IN SPEED OF LEAD VEHICLE

31-21 Watches for indications of reduced speed of lead vehicle including

31-211 More rapid closure of motorcycle and lead vehicle

31-212 Hand signals from lead vehicle driver

31-213 Activation of lead vehicle brake lights

31-214 Activation of lead vehicle directional turn signals

31-22 If lead vehicle reduces speed

31-221 Closes throttle to reduce speed

31-222 Taps brake pedal lightly to warn any following traffic and to further reduce speed

31-23 If lead vehicle stops

31-231 Applies brakes quickly enough to stop

31-232 Stops at distance far enough back of lead vehicle to leave an out for possible lane change

31-233A If not enough distance to stop, take evasive action--brake and steer around vehicle

31-24 If lead vehicle turns

31-241 Observes path of lead car to see if turn can be safely made

31-242 Prepares to stop quickly if lead vehicle

31-2421 Aborts turn

31-2422 Is forced to stop

31-3 OBSERVES TRAFFIC TO ANTICIPATE CHANGES IN LEAD VEHICLE VELOCITY

31-31 Observes vehicles in front of lead vehicle

31-32 Anticipates lead vehicle deceleration at following locations:

31-321 Uncontrolled intersection

31-322 Entrances to highway (e.g., on ramps)

31-3221 Short acceleration lanes

31-3222 Left-hand entrances

31-323 Highway exits (e.g., off-ramps)
Following

OBSERVES TRAFFIC TO ANTICIPATE CHANGES IN LEAD VEHICLE VELOCITY

31-3231  Short deceleration lanes
31-3232  Left-hand exits
31-324   Divergence points ("forks in the road")
Task 32: Passing

32-1 DECIDES WHETHER TO PASS (TWO-OR THREE-LANE ROADS)

32-11 Looks along roadside for passing control signs

32-111 Does not pass if "no passing" zone is indicated or has been indicated previously (see 21-2, Traffic Controls).

32-112 May pass if sign indicates end of "no passing" zone

32-12 Observes lane markings

32-121 Does not pass if left side of lane is marked by the following:
   32-1211 One or two solid lines
   32-1212 Solid line to the right of broken line

32-122 Determines that passing is permissible if left side of lane is marked by the following:
   32-1221 Broken line
   32-1222 Broken line to the right of solid line
   32-1223 No markings

32-123 Does not anticipate end of "no passing" zone

32-13 Observes roadway ahead

32-131 Identifies passing limitations including the following
   32-1311 No passing zone
   32-1312 Hill
   32-1313 Curve
   32-1314 Intersection
   32-1315 Bridge or tunnel
   32-1316 Railroad crossing
   32-1317 Pedestrian on edge or shoulder of two-lane roadway

32-132 Judges available passing distance

32-133 Judges lead vehicle relative to speed
   32-1331 In accelerative pass, judges lead vehicle speed from motorcycle speed
   32-1332 In flying pass, judges lead vehicle-motorcycle closing rate

32-134 Judges available passing time

32-135 Judges accelerative capability of motorcycle. Considers effect of the following:
   32-1351 Unusual load
      32-1351-1 Passenger
      32-1351-2 Cargo
   32-1352 Unfamiliar motorcycle, e.g., underpowered
   32-1353 Motorcycle not operating properly

32-136 Allows adequate safety margin for return to lane

32-137 Determines whether pass can be safely completed within available passing distance
   32-1371 If in doubt, decides not to pass

32-14 Observes oncoming traffic

32-141 Judges distance from first oncoming vehicle

32-142 Judges lead vehicle relative speed (see 32-133)

32-143 Judges available passing time

32-144 Judges accelerative capacity of motorcycle (see 32-135)
DECIDES WHETHER TO PASS (TWO- OR THREE- LANE ROADS)
32-145 Allows adequate safety margin
32-146 Determines whether pass can be safely completed within available passing distance
32-15 Observes lead vehicle
32-151 Does not pass if lead vehicle is:
   32-1511 Signalling or otherwise indicating a left turn
   32-1512 Changing lanes preparatory to passing
   32-1513 Weaving or wandering
   32-1513-1 May sound horn or flash headlight to alert driver of lead vehicle
   32-1513-2 If weaving does not cease, waits until pass can be made with at least one-half lane separation
32-1514 Decelerating suddenly
32-1515 Passing children, cyclist or animals
32-152 Assesses gap ahead of lead vehicle
32-1521 Does not pass if gap is unacceptable
32-153 If lead vehicle is being passed by another vehicle
32-1531 Does not pass until lead vehicle has been passed, view of road ahead is clear, and an acceptable gap is present
32-1532A Does not pass when oncoming traffic would require immediate return to driving lane as motorcycle cannot crowd in if gap should change suddenly

PREPARES TO PASS
32-21 Selects passing lane
32-211A Does not ride abreast of and in the same lane with other vehicles when about to pass
32-211 Two- or three-lane road
32-2111 Passes moving traffic only on left
32-2112 Vehicles stopped in center lane for left turn may be passed on right
32-2113 Uses middle lane only for passing on left when on a three lane road
32-212 Four-lane road
32-2121 Generally passes on left
32-2122 May pass moving traffic on right if necessary and legally permissible within particular state
32-2123 May cautiously pass vehicle stopped for left turn on the right
32-213 Six or more lanes
32-2131 Generally passes on left
32-2132 May pass on right where
32-2132-1 No lane change is necessary
32-2132-2 It is safe and expedient to traffic
32-22 Observes other traffic (see 34, Lane Changing)
32-23 Signals lane change well in advance (see 34, Lane Changing)
32-24 Maintains proper following distance prior to lane change (see 31, Following)

CHANGES LANE (SEE 34, LANE CHANGING)
32-31 On a freeway, changes lane well in advance
32-32A Assume appropriate position in passing lane (near center of lane)
32-32A1 Does not pass between moving vehicles

INITIATES PASS OF LEAD VEHICLE
32-41 Signals lead vehicle when necessary
### Passing

**INITIATES PASS OF LEAD VEHICLE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32-411</td>
<td>Flicks headlights at night</td>
</tr>
<tr>
<td>32-412</td>
<td>Sounds horn when</td>
</tr>
<tr>
<td>32-4121</td>
<td>Lead vehicle's vision to rear is obscured by trailer, open trunk lid, ice or snow on rear window or objects in rear window</td>
</tr>
<tr>
<td>32-4122</td>
<td>Lead vehicle is about to pull out and pass</td>
</tr>
<tr>
<td>32-4123</td>
<td>Lead vehicle moves laterally toward motorcycle</td>
</tr>
<tr>
<td>32-4124</td>
<td>Driver of lead vehicle appears inattentive</td>
</tr>
<tr>
<td>32-4125A</td>
<td>Watches for reaction since other drivers may not hear horn</td>
</tr>
</tbody>
</table>

**PASSES WITH MINIMUM DELAY**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32-51</td>
<td>Moves through lead vehicle's blind spot quickly</td>
</tr>
<tr>
<td>32-52</td>
<td>Does not exceed speed limit unless necessary</td>
</tr>
<tr>
<td>32-53A</td>
<td>If sudden acceleration is needed, opens throttle fully after downshifting to next lower gear</td>
</tr>
<tr>
<td>32-54</td>
<td>If ability to complete pass is doubtful, aborts pass and returns to lane</td>
</tr>
<tr>
<td>32-55</td>
<td>When sight distance permits</td>
</tr>
<tr>
<td>32-551</td>
<td>May pass several vehicles in one passing maneuver</td>
</tr>
<tr>
<td>32-5511</td>
<td>Assesses remaining passing distance and time</td>
</tr>
<tr>
<td>32-5512</td>
<td>Looks for gaps between vehicles ahead of sufficient size to permit re-entering driving lane without excessive speed adjustment</td>
</tr>
</tbody>
</table>

**RETURNS TO DRIVING LANE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32-61</td>
<td>Continues in passing lane until both headlights of passed vehicle are observed in rearview mirror or by glance over shoulder</td>
</tr>
<tr>
<td>32-62</td>
<td>Returns to driving lane (see 34, Lane Changing)</td>
</tr>
</tbody>
</table>
Task 33: Entering and Leaving Traffic

33-1 ENTERING TRAFFIC
33-11 Checks traffic to front and rear
33-111 Yields to rear-approaching traffic
33-112 Looks for a suitable gap in traffic
33-113 Notes vehicle that motorcycle will enter behind and activates turn signal or hand signal as that vehicle passes
33-12 Enters traffic lane
33-121 Starts slowly and evenly
33-122 If entering pavement from shoulder, turns motorcycle sufficiently to cross roadway edge at sharp angle
33-13 After entering traffic lane
33-131 Straightens motorcycle
33-132A Switches off turn signal (if any)
33-133 Accelerates to attain speed established by traffic flow

33-2 LEAVING TRAFFIC
33-21 Scans roadside ahead for suitable area to stop
33-211 Avoids soft and/or narrow shoulders or medians
33-212 Checks for hazardous objects or obstructions, such as trees, utility poles and sign posts, that could prevent pulling completely onto shoulder
33-213 Avoids area where motorcycle cannot be seen by traffic at least 200 feet away in either direction
33-214 Where roadside is occupied by parked vehicles (see 36-11, Reacting to Parked Vehicles)
33-22 Signals intention early
33-23 Decelerates to safe exit speed
33-231 Checks speedometer to avoid underestimating speed
33-24 If driving off pavement, turns motorcycle to sharp angle to avoid skidding off edge of pavement
33-25 Makes sure motorcycle has cleared main roadway before stopping
33-26A Checks traffic to rear before dismounting
Task 34: Lane Changing
(See 32, Passing; 41, Negotiating Intersections; and 42, Entrances and Exits)

34-1 DECIDES TO CHANGE LANES
34-11 Determines whether lane change is legally permissible
34-111 Looks for regulatory signs prohibiting lane change well in advance of maneuver
34-112 Observes pavement markings
34-12 Looks for rear-approaching traffic in new lane
34-121A Checks rearview mirror(s) and over shoulders to observe
34-121 Vehicles passing in new lane
34-1212 Following vehicles closing fast from rear in new lane
34-1213 On multi-lane roads, looks for vehicles about to enter new lane from the far adjacent lane

34-2 PREPARES TO CHANGE LANES
34-21 Signals intention to change lane by activating directional signal and/or employing appropriate hand signal
34-22 Adjusts motorcycle speed
34-221 Accelerates if possible or maintains speed
34-23 Checks traffic again just before pulling out

34-4 COMPLETES LANE CHANGE
34-41A Positions motorcycle in the left half of new lane (except on one way street, drives in right half of lane if in left lane)
34-42 Cancels directional signal
34-43 Adjusts speed to traffic flow in new lane
Task 35: Parking

35-1 SEEKS PARKING SPACE
35-11 Maintains close to posted speed
35-12 If passenger present
35-121 Asks passenger to locate space
35-122 Attends to roadway
35-13 In cities
35-131 Considers possible necessity to park several streets away from destination
35-132 Seeks off-street parking in a lot or garage if stay extends beyond time permitted for on-street parking

35-2 DETERMINES SUITABILITY OF SPACE
35-21 Signals deceleration or stop to following vehicles
35-22 Evaluates size of parking space
35-221 Drives alongside space
35-222A Determines whether space will accept motorcycle angled out from the curb
35-23 Determines whether parking is legally permissible
35-231 Examines signs for indication of parking limitations
35-232 Examines curbs for painted markings
35-233 Does not park
35-2331 Within 30 feet of a traffic light or sign located at roadside*
35-2332 Within 20 feet of a crosswalk at an intersection, except momentarily to discharge or pick up passengers*
35-2333 Between a safety zone and the adjacent curb, or within 30 feet of near side of safety zone, except to avoid traffic conflict*
35-2334 Within 15 feet of a fire hydrant*
35-2335 Within 20 feet of a fire station entrance or within 75 feet across from a fire station entrance, except momentarily to discharge or pick up passengers*
35-2336 Within 50 feet of the nearest railroad track*
35-2337 Adjacent to or opposite a street excavation if motorcycle would impede traffic flow
35-2338 In front of a driveway, except momentarily to discharge or pick up passenger
35-2339 On roadway side of any vehicle standing or parked at edge of curb of street
35-24 Minimizes hindrance to following traffic
35-25A Determines physical condition of parking space
35-25A1 Does not park if
35-25A11 Road surface will not support motorcycle in an upright position
35-25A12 Parking area has coating of oil or grease

35-3 PARKS MOTORCYCLE
35-31 Parallel parking
35-311 Prepares to park
35-3111 Signals stop to traffic behind
35-3112 If lanes permit, may signal following traffic to pass before attempting to park
35-3113A Pulls motorcycle into space and turns out toward traffic, then backs motorcycle against curb at an angle in center of space

* Distance may vary according to local or state laws or customs
PARKS MOTORCYCLE

35-314A Supports motorcycle with parking stand

35-32 Angular parking

35-321 Signals stop to traffic behind

35-322A Positions motorcycle several feet from parked vehicles

35-323A While maintaining forward motion, turns motorcycle sharply when rear wheel is even with near side of parking space

35-325 Enters parking space with motorcycle centered to allow room for adjacent cars, opening doors, maneuvering, etc.

35-326A Stops with rear of motorcycle 2 feet ahead of rear of adjacent cars so other drivers will not think space is empty

35-33 Perpendicular parking

35-331 When approach is unrestricted

35-331A Swings out as much as necessary, at least 1/2 car length beyond line of vehicles

35-331B Begins turn when front end is even with near side of parking space

35-331C Turns motorcycle sharply while maintaining forward motion

35-331D Checks for clearance as in angular parking

35-331E Enters parking space and stops as described in angular parking

35-4 SECURES MOTORCYCLE

35-41A Places parking stand in position

35-41A1 On hills, turns motorcycle so slope does not tend to roll motorcycle off parking stand or tip it over

35-41A2 On level ground makes sure front wheel is not lower than rear wheel to prevent cycle from being pushed off stand

35-43 Turns off lights

35-44 Turns off ignition and removes key

35-46A Turns front wheel to lock position and locks steering head (if so equipped)

35-47A Closes choke and gas feed (if so equipped)

35-7 LEAVES PARKING SPACE

35-71 When parallel parked

35-71A Follows Entering Traffic procedures (see 33-11)

35-72 When parked at an angle

35-721 Backs out

35-721A Starts engine

35-721B Checks traffic behind

35-722 Backs up slowly while watching for traffic obscured from view by parked vehicles on either side

35-723 Turns motorcycle when certain that motorcycle will clear vehicle(s) on either side

35-724 Straights motorcycle and stops when motorcycle has fully entered traffic lane

35-724A Mounts motorcycle

35-725 Shifts to first gear

35-726 Proceeds forward in lane slowly

35-727 Exits facing traffic lane from perpendicular space

35-728 Moves straight forward slowly a few feet to ensure clearance from adjacent parked vehicles when turning

35-729 Turns motorcycle sharply toward desired direction

35-730 Checks that rear fender will clear adjacent vehicle

35-731 Straights motorcycle when clear and accelerates
Task 36: Reacting to Traffic

36-1 REACTING TO OTHER VEHICLES

36-11 Reacting to parked vehicles

36-111 Drives at slower speeds when approaching or driving alongside parked vehicles—stops 1/2 to 3/4 lane width away from them if possible

36-112 Watches for pedestrians or animals entering the roadway from in front or between parked vehicles

36-113 If approaching a parked vehicle with the hood up, decelerates and, if possible, positions motorcycle far enough away from parked vehicle to avoid striking driver should he enter roadway

36-114 Watches for vehicle doors being opened or indication that vehicle occupants are about to exit on the roadway side

36-1141 Flashes headlight beams or sounds horn to provide warning

36-1142 If possible, positions motorcycle far enough away from the parked vehicle (lateral clearance) to avoid striking the vehicle door if it is opened unexpectedly

36-115 Looks ahead for indications of vehicles leaving parking spaces

36-1151 Notes vehicle with exhaust smoke coming from it

36-1152 Observes vehicle driver hand signals or directional turn signals which are activated

36-1153 Notes lighted vehicle back-up lights or brake lights

36-116 Prepares to stop behind or change lanes when vehicle ahead is about to exit or enter a parking space

36-1161 If decision is made to stop

36-1161-1 Allows sufficient clearance ahead to enable the vehicle driver to complete his maneuver without crowding

36-1162 If decision is made to change lanes

36-1162-1 Changes lanes with proper caution (see 34, Lane Changing)

36-1162-2 Makes certain there is adequate clearance ahead

36-1162-21 Makes certain that the driver of the parked vehicle is aware of motorcycle's presence before overtaking and passing

36-1162-3 Allows a full car width between motorcycle and vehicle that is parallel parked

36-12 Responding to being passed

36-121 Checks rearview mirror frequently and uses peripheral vision to detect overtaking or passing vehicles

36-122 Looks ahead to determine whether pass can be safely completed

36-122A Checks over shoulder to determine the position of adjacent vehicles

36-1221 If pass appears to be safe

36-1221-1 Maintains left half of lane position and does not adjust position to the right to provide additional passing clearance unless necessary to evade crowding driver

36-1221-2 Maintains or reduces speed; does not accelerate

36-1221-3 Watches for signals or other indications that the passing vehicle plans to cut back in front of the motorcycle

36-1221-31 Prepares to decelerate to provide a larger opening or additional following distance if the passing vehicle cuts in after passing

33
Reacting to Traffic

REACTING TO OTHER VEHICLES

36-1222 If the passing vehicle is confronted with a situation requiring a sharp cut back into the driving lane

36-1222-1 Decelerates as necessary
36-1222-2 Checks road shoulder in event necessary to leave lane
36-1222-3 Alerts passenger
36-1222-4 Maintains grip on handlebars
36-1223 If passing vehicle attempts to abort pass
36-1223-1 Accelerates quickly if there is adequate clearance ahead to allow passing driver to pull safely back into a driving lane

36-13 Reacting to being followed

36-131 Signals intentions to following vehicle driver
36-1311 Uses directional turn signals and/or arm signals well in advance to indicate change in lane or direction
36-1312 Uses brake lights and arm signal to indicate deceleration and stopping
36-1313 When driving into bright sun glare
36-1313-1 Uses arm signals in addition to lighted turn or brake lights

36-132 Makes smooth gradual stops
36-1321 Observes roadway and traffic ahead to anticipate stop requirements
36-1322 Decelerates early and gradually for required stop maneuvers to avoid jamming on the brakes
36-133 Checks rearview mirror(s) frequently to assess the traffic situation behind

36-1331 Notes rate of overtaking by following vehicle
36-1332 Watches for following vehicle's directional signals indicating intent to pass
36-1333 Watches for tailgating vehicles
36-1333-1A Avoids tailgaters by gradually slowing down allowing them to pass or leaving roadway and stopping to force them to pass
36-1333-2 If tailgated in passing lane
36-1333-21 Returns to right lane at earliest safe opportunity
36-1333-22 Avoids abrupt reaction
36-1334 If following driver exhibits erratic driving
36-1334-1 Accelerates to gain distance if following driver is driving at slow speeds
36-1334-2 Keeps to the right, decelerates and pulls off onto right shoulder if necessary to allow following driver to pass

36-1335 If being followed by a runaway vehicle
36-1335-1 Pulls off onto right shoulder as quickly as possible
36-1335-1A Drives behind any protection available (e.g., guard rail, etc.)
36-1336 If being followed at night by vehicle with high beams on at near distance
36-1336-1 Avoids looking at mirrors
36-1336-2 Flashes headlight beams quickly
36-1336-3 Drives at slower speeds to encourage pass
36-1336-4 Allows following vehicle to pass as soon as safely possible

36-134 When motorcycle is stopped
36-1341 Checks to see that vehicle behind has stopped or will be able to stop safely
Reacting to Traffic

REACTING TO OTHER VEHICLES

36-1341-1 If vehicle is not slowing down and collision appears likely
36-1341-11A Get motorcycle off road if possible
36-1341-12A Dismount to right hastily laying motorcycle down in same direction
36-1341-13A Warn passenger to bail out to the right

36-14 Reacting to oncoming vehicles

36-141 Keeps to right of center line (see 32, Passing)
36-142A Positions motorcycle in left section of lane where it is most visible unless necessary to swerve to avoid collision (may move to the right when encountering several oncoming vehicles)
36-143 Maintains precise control over motorcycle when passing oncoming vehicles
36-1431 Reacts quickly to
36-1431-1 Wind gusts
36-1431-2 Road irregularities
36-1431-3 Oncoming vehicle crossing center line
36-1432 Watches for indication that oncoming vehicle might cross center line
36-14321 Observes turn signals indicating desire to turn left (see 41, Negotiating Intersections) or pass
36-14322 Observes drivers tailgating, indicating desire to pass
36-14323 Observes slow-moving or stopped vehicles and anticipates other vehicles attempting to pass
36-14324 Observes vehicles backing into or pulling out of a parking space, and anticipates outward swing causing it to cross center line (two-lane road)
36-1432-2 Force passing vehicle across center line (four-lane road)
36-1445 Observes oncoming vehicles with right wheels off pavement and anticipates overreaction in regaining roadway
36-1446 At left curves, watches for tendency of oncoming vehicles to drift toward his lane
36-1447 When oncoming traffic is merging, watches for vehicle being forced across center line
36-145 Observes roadway for:
36-1451 Conditions that might adversely influence oncoming vehicle control
36-1451-1 Slippery surface (ice, rain)
36-1451-2 Ruts (deep snow or mud)
36-1452 Obstructions that might force oncoming vehicle across center line
36-1452-1 Potholes
36-1452-2 Road repair and associated equipment
36-146 Reacts to potential hazards
36-1461 Where the above conditions exist
36-1461-1 Reduces speed
36-1461-2 Moves to the right if possible
36-1462 If oncoming vehicle starts to cross center line
36-1462-1 Flashes headlights and/or sounds horn
36-1462-2 Closes throttle quickly and determines need for braking
36-1462-3 Taps brakes lightly to warn any following traffic
Reacting to Traffic

REACTING TO OTHER VEHICLES

36-1463 If vehicle continues across center line
36-1463-1 Steers motorcycle to right side of roadway
36-1463-2 Applies brakes quickly enough to allow time for oncoming vehicle to effect a safe return to lane
36-1463-3 Looks for appropriate place to leave the roadway if necessary

36-147 When an oncoming vehicle fails to return to lane
36-1471 Attempts an emergency stop, if and only if, distance permits (see 16-3, Emergency Stop)
36-1472 If a stop cannot be made, looks for space on the roadway to take evasive action
36-1472-1 Looks for space to the right of the oncoming vehicle
36-1472-2 Drives to the left of the oncoming vehicle only when
36-1472-21 Oncoming vehicle is moving to the right e.g., turning into cross street, driveway, etc.
36-1473 If on road evasive action is possible
36-1473-1 Concentrates on steering
36-1473-2 Closes throttle
36-1473-3 Avoids braking
36-1473-4 Warns other driver(s) with horn
36-1474 If on road evasive action is not possible
36-1474-1 Looks for first available space to leave roadway
36-1474-11 Selects among the following (listed in decreasing order of preference)
36-1474-111 Shoulder
36-1474-112 Side street, driveway or parking area if travelling slowly enough
36-1474-113 Field or lawn
36-1474-114 Yielding objects such as shrubbery, small trees, sign posts or embankments
36-1474-12 Attempts to avoid large rigid objects such as large trees, telephone poles or bridge abutments
36-1474-13 Leaves the roadway at any point rather than risk a head-on collision
36-1474-2 Leaves the roadway
36-1474-21A Decelerates by applying brakes in emergency stop procedure
36-1474-22 Turns motorcycle as gradually as possible
36-1474-23A Releases front brake when crossing the edge of shoulder
36-1474-3 After leaving the roadway
36-1474-31 Straightens motorcycle as soon as possible
36-1474-32 Decelerates by applying brakes, regulating pressure in terms of surface conditions and available stopping distance
36-1474-33A After motorcycle has slowed to controllable speed for conditions, downshifts, applies brakes to stop the motorcycle
36-1474-4 Returns to roadway (see 33-1, Entering Traffic)
36-1474-5 If necessary to return to roadway without stopping
36-1474-51 Releases brake
36-1474-52 Steers toward roadway as gradually as possible
36-1474-53A Crosses edge of pavement at an angle large enough to avoid catching wheels
Reacting to Traffic

REACTING TO OTHER VEHICLES

36-1475 If collision is unavoidable

36-1475-2A Attempts to lessen the effects of impact by steering to sideswipe vehicle or slide into vehicle with wheels of motorcycle taking first impact

36-1475-4 Attempts to minimize injury by

36-1475-41A Throwing body sideways away from sideswipe contact

36-1475-42A Jumping up to prevent thighs from being broken by handlebars

36-15 Reacting to vehicle ahead - overtaking (see 31, Following)

36-151 Determines closing rate of motorcycle with vehicle ahead

36-1511 Judges closing rate (see 52, Night Driving)

36-1512 Anticipates slow movement by the following vehicles

36-1512-1 Slow moving vehicles

36-1512-11 Farm vehicles

36-1512-12 Underpowered vehicles

36-1512-13 Trucks on hills

36-1512-2 Frequently stopping vehicles

36-1512-21 Buses including school buses

36-1512-22 Buses and trucks carrying inflammables at railroad crossings

36-1512-23 Postal delivery vehicles

36-1512-3 Vehicles that are engaged in the following maneuvers

36-1512-31 Turning or exiting

36-1512-32 Entering highway

36-1512-33 Merging with other vehicles

36-1512-34 Approaching controlled intersections or railroad crossings

36-152 Decelerates

36-1521 Initiates deceleration in sufficient time to avoid emergency stops

36-1522 Decelerates sufficiently rapidly to assure at least a two second separation from vehicle ahead

36-1523 Signals deceleration to vehicles behind

36-153 Upon overtaking lead vehicle, decides upon of the following courses of action

36-1531 Passing overtaken vehicle (see 32, Passing)

36-1532 Following overtaken vehicle (see 31, Following)

36-1533 Reducing speed and operating independently of lead vehicle

36-154 If vehicle is stopped

36-1541 Stops well behind overtaken vehicle to permit passing without backing up

36-1542 Watches for unusual activity

36-1542-1 Passengers leaving vehicle

36-1542-2 Sudden turns

36-1543 Observes traffic approaching from front and rear before attempting to pass

36-1544 When it is safe to pass, sounds horn and passes

36-1545 If vehicle is disabled, (see 36-3, Reacting to Collisions and Emergencies)

36-16 Reacting to special vehicles

36-161 If following or approaching an oncoming school bus

36-1611 Looks for indications that the school bus is preparing to stop
Reacting to Traffic

Reacting to Traffic


to

other

vehicles

36-1611-1 Watches for indications from the school bus
36-1611-11 Looks for flashing amber lights if bus is so equipped
36-1611-12 Looks for brake light activation
36-1611-13 Looks for other physical indications of vehicle deceleration
36-1611-2 Watches for indications external to the school bus
36-1611-21 Looks for groups of children awaiting the arrival of the school bus
36-1611-22 Looks for signs indicating a bus stop point
36-1612 Decelerates and comes to a complete stop if the school bus is stopping in the roadway in either direction to load or unload passengers
36-1612-1 Stops when flashing red lights and/or mechanical arm are activated
36-1612-2 If bus is not equipped with stop signals, stops when bus door is open
36-1613 Remains stopped until
36-1613-1 School bus signals have been deactivated
36-1613-2 School bus without signals is proceeding
36-1613-3 All children have cleared the traffic area
36-162 If an emergency vehicle, i.e., ambulance, fire truck, police car, is approaching from behind, from the opposite direction or from the side
36-1621 Pulls over to the right curb or shoulder and stops
36-1622 Does not block intersection
36-1623 Proceeds only when certain that all emergency vehicles have passed
36-163 If an emergency vehicle siren is heard and the vehicle is not visible
36-1631 Follows procedure for approaching emergency vehicle (see 36-162 above)
36-164 If police vehicle with red lights and/or siren activated is following motorcycle
36-1641 Pulls over to the right side of roadway as soon as safely possible and stops
36-1642 If police vehicle also stops, remains stopped and awaits further instructions from officer
36-1643 If police vehicle continues on, proceeds only when certain that all emergency vehicles have passed
36-165 If overtaking an emergency vehicle ahead
36-1651 Decelerates and prepares to stop if required
36-1652 Does not follow emergency vehicle closer than 500 feet
36-1653 Watches for other emergency vehicles behind motorcycle
36-166 If flashing red lights or flashing yellow lights on vehicle ahead are noted
36-1661 Decelerates and prepares to stop if required
36-1662 Watches for further obstacles or interruptions on the roadway
36-1663 Watches for slow-moving or stopped vehicles on roadway
36-1664 Looks for traffic control officers or flagmen on scene
36-167 Avoids interfering with a funeral procession or other type of convoy
36-1671 Yields right of way to all vehicles in procession or convoy
36-1672 Does not cut into line of procession
36-1673* Does not cut across line of procession

* New Statement
Reacting to Traffic

REACTING TO OTHER VEHICLES

36-168 When approaching a bus stop
36-1681 Watches for pedestrians crossing street to board bus or streetcar
36-1682 Where bus or streetcar discharges passengers directly onto street
36-1682-1 Stops before reaching stopped bus or streetcar
36-1682-2 Remains stopped until bus or streetcar proceeds
36-1682-3 Checks to see that pedestrians have reached safety before starting
36-1683 If driving near street car tracks
36-1683-1 Observes tracks to determine path of vehicle
36-1683-2 Avoids driving on top of street car tracks

RESPONDING TO PEDESTRIANS AND OTHER ROAD USERS

36-2 Observes pedestrians
36-21 Watches for pedestrians near intersections, crosswalks, and school crossings
36-212 Yields right-of-way to pedestrians at all times
36-213 Watches pedestrians for indication of entry onto roadway
36-2131 Pedestrians walking toward roadway
36-2132 Children
36-2132-1 Walking
36-2132-2 At play
36-2133 Pedestrians apparently under the influence of alcohol
36-2134 Pedestrians who are running
36-2135 Pedestrians who are distracted (e.g., reading)
36-214 Watches pedestrians standing on roadway for sudden movements to avoid traffic
36-22 Passes pedestrians carefully
36-221 Provides maximum possible clearance when passing pedestrians including use of passing lane
36-222 Does not pass vehicle ahead when pedestrians reduce lane clearance
36-23 During periods of inclement weather
36-231 Watches out for pedestrians whose visibility may be reduced by umbrellas, rain hats and other apparel
36-232 Slows down when traversing puddles which might cause splashing of pedestrians
36-233 Allows extra time and clearance for pedestrians to clear roadway when surfaces are wet and slippery
36-24 When stopped at intersections and noting pedestrians waiting to cross with large or heavy objects, remains stopped to allow pedestrians to proceed
36-25 Watches out for animals (domestic and wildlife) in roadway
36-251 Decelerates when entering animal crossing zone or when noting animals on or alongside the roadway
36-252 Sounds horn to alert animal of motorcycle's approach
36-2521A If animal chases motorcycle, accelerate if safe to do so
36-253 Weighs other consequences on traffic before making emergency stop or swerve
36-2531A Does not swerve motorcycle to avoid hitting small animal if it would jeopardize the safety of driver, passenger, other motorists or pedestrians
36-254 Overtakes animals at reduced speed and resumes normal rate after pass has been accomplished
36-26 When in danger of striking a pedestrian or cyclist
Reacting to Traffic

RESPONDING TO PEDESTRIANS AND OTHER ROAD USERS

36-261 Blows horn
36-262A Decelerates by applying brakes
36-263 Checks traffic
36-264 Swerves motorcycle gradually when insufficient stopping distance exists

36-3 REACTING TO COLLISIONS AND EMERGENCIES

36-31 If approaching the scene of an accident or emergency operation such as a fire, ambulance, or police operations

36-311 Slows down in advance of affected area and prepares to stop if required
36-312 Watches for traffic officers or other persons on the scene
36-313 Looks for indications or instructions regarding movement through the affected area

36-3131 Looks for signals by persons stationed at the scene controlling traffic movement
36-3132 Looks for flares, signs, or other warning devices outlining the route through the area

36-32 When driving through or by the emergency area

36-321 Drives at reduced speed
36-322 Watches for unexpected movement of vehicles and pedestrians on the roadway
36-323 Does not stop or slow down unnecessarily to view emergency scene activities

36-33 Resumes normal speed only after completely passing the emergency area

36-34 If approaching the scene of a severe accident immediately after its occurrence and the scene is unattended

36-341 Stops at the scene of accident in safe location completely off roadway
36-342 Provides assistance as required

36-3421 Provides necessary first aid
36-3422 Positions flares or signals to warn other vehicles if required
36-3423 Contacts police and requests necessary medical assistance
36-3424 Remains at accident scene until necessary help arrives
36-3425 If involved indirectly with accident
36-3425-1 Provides necessary information to police and involved parties
Task 37A: Driving with other Motorcycles

37A-1 GENERAL
37A-11 Minimize distractions
37A-111 Does not converse with other motorcycles or passengers
37A-112 Does not attempt to "show-off"
37A-12 Drives more cautiously
37A-121 Drives in single file in staggered formation
37A-1211 Does not drive two or more motorcycles abreast in any one lane
37A-122 Maintains larger following distance from lead motorcycle than would from car at same speed
37A-123 Drives at a steady, constant pace
37A-1231 Does not set a pace above that possible for the slowest motorcycle

37A-13 With other vehicles
37A-131 Avoids driving too close to other vehicles
37A-132 Does not drive in the passing lane or otherwise "box" other vehicles in
37A-133 Does not weave in and out of traffic to catch up with other motorcycles
41-1 APPROACHES INTERSECTION
41-11 Decelerates
41-111 Decelerates gradually but not too early, particularly if followed by another vehicle
41-112 Decelerates in sufficient time to avoid stopping in intersection or on crosswalk
41-12 Enters correct lane
41-121 Observes signs providing lane information
41-122 Enters correct lane as early as possible, but no later than 100 feet prior to intersection
41-1221 If proceeding through intersection
41-1221-1 Enters center lane(s) (unless otherwise directed)
41-1222 Enters far right lane for right turn (unless otherwise directed)
41-1223 Enters far left authorized lane for left turn (unless otherwise directed)
41-13 Signals if intending to turn
41-131 Uses directional indicator or hand signal (see 14-2, Turning)
41-132 Gives signal at appropriate time
41-1321 Signals as soon as possible without causing confusion
41-1322 Signals no later than 100 feet prior to intersection
41-14 Observes traffic controls
41-141 Observes traffic officer
41-1411 If officer and other control devices are in conflict, follows officer's signal
41-142 Observes traffic lights
41-1421 Prepares to stop if light is red, flashing red, yellow, or flashing green
41-1421-1A Stay in lane
41-1421-2A Maintain position in traffic stream
41-1421-3A Stop near or on left tire markings in the lane
41-1422 Maintains reduced speed if light is green or flashing yellow
41-1423 If possible, gauges length of time light has been on
41-1424 Anticipates light changing after about 20-25 seconds duration
41-1425 If light changes from green to yellow
41-1425-1 Decelerates and prepares to stop
41-1425-2 Proceeds through intersection with caution
41-1425-21 If stopping short of intersection will cause conflict with following vehicles
41-1425-22 If a full stop cannot be made prior to intersection
41-143 Observes traffic signs
41-1431 Prepares to stop if intersection controlled by stop sign
41-1431-1A Stay in lane
41-1431-2A Maintain position in traffic stream
41-1431-3A Stop near or on left tire markings in the lane
41-1432 If intersection controlled by yield sign
41-1432-1 Decelerates sufficiently to stop if necessary
41-1432-2 Proceeds through intersection cautiously when clear
Approaches Intersection

41-1433 If intersection is uncontrolled, slow down

41-15 Observes other traffic

41-151 Oncoming traffic

41-1511 Observes oncoming traffic for indication of left turn

41-1512 Prepares to stop quickly if oncoming vehicle suddenly makes left turn

41-152 Left-turning vehicle

41-1521 Reduces speed to permit vehicle to complete left turn

41-1522 Prepares to stop if vehicle does not complete left turn

41-1523 Observes path of vehicle to anticipate forced stop

41-153 Vehicle approaching from right

41-1531 Estimates distance and speed of approaching vehicle

41-1532 If vehicle is close and fast approaching intersection, decelerates or stops to permit vehicle to clear intersection

41-1533 Observes path of vehicle to anticipate forced stop

41-1533-1 Closes throttle and covers brake pedal

41-154 Vehicle approaching from left

41-1541 Motorcycle and vehicle on major roads

41-1541-1 Observes vehicle from left for indication of deceleration and prepares to stop if vehicle does not yield right of way

41-1541-2 May elect to yield right of way to vehicle from the left unless motorcycle is being followed by another vehicle

41-1542 Motorcycle on minor road

41-1542-1 Estimates distance and speed of approaching vehicle

41-1542-2 If vehicle is close and fast approaching intersection, prepares to stop to yield right of way to vehicle from the left

41-1542-3 If vehicle is signalling right turn, decelerates and prepares to enter intersection only after vehicle has begun turn

41-16 If vision is obscured by buildings, hedges or trees, parked vehicles, or other obstructions

41-161 Stops at intersection

41-162 Edges forward cautiously (see 15, Speed Control)

41-17 If unable to enter correct lane for turn, proceeds to next intersection

41-18 Stops before reaching crosswalk

Traverses Intersection

41-21 General

41-211 Observes traffic control

41-2111 Observes traffic light

41-2111-1 If light is red

41-2111-11 Waits until light is green

41-2111-12 Does not anticipate green light by moving on yellow light

41-2111-2 If light is green or flashing yellow, proceeds to enter intersection after checking for cross traffic

* New Statement
Negotiating Intersection

TRAVERSES INTERSECTION

41-2111-3 At flashing red light, proceeds only after coming to a complete stop

41-2111-4 If green arrow governs lane, proceeds only in direction indicated by arrow

41-2112 Observes traffic sign

41-2112-1 Stop sign

41-2112-11 Comes to a full stop before proceeding

41-2112-12 Proceeds only when it will not interfere with cross traffic

41-2112-2 Yield sign

41-2112-21 Reduces speed and checks cross traffic

41-2112-22 Proceeds only when it will not interfere with cross traffic

41-212 Observes other traffic

41-2121 Observes traffic ahead

41-2121-1 Prepares to stop should lead vehicle stop abruptly

41-2121-2 Observes path ahead of lead vehicle to anticipate stops

41-2121-3 Does not enter intersection unless traffic ahead permits complete passage

41-2122 Observes oncoming traffic

41-2122-1 Stops if left turn is made suddenly across motorcycle's path

41-2122-2 Yields to oncoming traffic when making left turn (see 41-24, Turning left)

41-2123 Observes cross traffic

41-2123-1 Observes traffic from the left

41-2123-11 If vehicle is signalling a right turn, avoids pulling out until vehicle starts to turn

41-2123-2 Observes traffic from the right

41-2123-21 Does not enter intersection unless complete passage is assured

41-213 Observes pedestrians

41-2131 Decelerates and proceeds cautiously if pedestrians are near corner

41-2132 Stops and yields right of way if pedestrian enters street

41-214 Avoids decision changes while in intersection

41-2141 Does not turn if signal for turn has not been given

41-2142 Completes turn if signal for turn has been given

41-2143 Pulls off roadway after traversing intersection to plan alternate route

41-215 Avoids stopping in intersection

41-2151 Stops only where traffic requires

41-2152 Does not stop to obtain information

41-2152-1 From route signs

41-2152-2 From traffic control officers

41-22 Proceeding directly through intersection

41-221 Checks cross traffic (see 41-212, Observes other traffic above)

41-222 Yields right of way as described above in 41-1, APPROACHES INTERSECTION

41-223 Observes traffic preparing to turn left

41-2231 Prepares to stop should a left turn be initiated
Negotiating Intersection

TRAVERSES INTERSECTION

41-2231A  Uses larger lead vehicle for "interference"
41-2232  May yield right of way to left-turning vehicle(s) when
41-2232-1  Traffic behind turning vehicle is heavy
41-2232-2  Traffic following motorcycle is light
41-2233  Generally does not yield to left-turning vehicle(s) when
traffic following motorcycle is heavy
41-224  Waits until gap appears of sufficient size to permit
complete passage across intersection
41-225  If upon entering intersection a vehicle suddenly appears
from the left
  41-2251  Does not stop in direct path of vehicle
  41-2252  Accelerates rapidly to get out of way or
  41-2253  Swerves sharply to the right to reduce the impact angle
41-226  If a vehicle approaches rapidly from the right while
crossing intersection
  41-2261  Does not stop in direct path of vehicle
  41-2262  Does not attempt to stop if stop cannot be made before
entering the path of the vehicle
  41-2263  Accelerates rapidly to get out of the way

Turning right

41-231  Observes traffic controls as described above in 41-21,
General
41-232  Checks cross traffic
41-2321  Checks to the left
41-2321-1  Judges distance from nearest vehicle
41-2321-2  When a line of traffic is approaching, waits for a
gap of sufficient size before proceeding
41-2322  Checks to the right for vehicles in intended lane
41-233  Positions motorcycle for turn so that it can clear the
corner and fully remain within intended lane
41-234  Completes turn
41-2341  Enters transit lane closest to curb
41-2341-1  Turns sharply enough to avoid encroaching upon
left lane
41-2341-2  Does not turn so sharply as to cause rear wheel to
  cut corner
41-2341-3A  Does not use front brake during turn
41-2342-1  Avoids shifting gears during turn
41-2342-2  Avoids other use of hands
41-2343  Maintains proper speed to keep motorcycle steady
41-2343-1  Does not exceed fifteen miles per hour
41-2343-2  Does not fall below five miles per hour unless
  required by traffic
41-2343-3  Accelerates slightly during turn
41-2343-4A  If possible, keeps both feet on motorcycle
41-2344  Checks to see that directional signal has been cancelled

Turning left

41-24  General
41-241  Observes traffic controls as described under 41-21,
General
41-2412  Checks cross traffic from both directions
41-2413  Waits until there is a sufficient gap in traffic from
both left and right to permit the turn to be made
without danger
41-2413-1A  If possible, maintains sufficient speed to keep
motorcycle steady
41-2413-2A  If possible, keeps both feet on motorcycle
41-2414  Avoids pulling halfway into the intersection if it
would interfere with cross traffic
Negotiating Intersection

TRAVERSES INTERSECTION

41-242  No oncoming traffic

41-2421 Pulls partially into intersection

41-2422 Begins left turn before reaching center of cross street

41-2423 Turns into far left lane in direction of intended travel

41-2424 Checks to see that directional signal has been cancelled

41-2425 Enters appropriate lane for normal driving (see 34, Lane Changing)

41-243 Oncoming traffic stopped at intersection

41-2431 On green arrow

41-2431-1 Proceeds to make left turn across path of oncoming traffic as indicated for "no oncoming traffic" situation above (see 41-242)

41-2431-2 Prepares to stop before turning left if green arrow disappears

41-2432 Advanced green

41-2432-1 Turns across path of oncoming traffic immediately after light has turned green

41-2432-2 Checks to make sure oncoming traffic has not anticipated green light

41-2432-3 Prepares to stop if oncoming traffic moves forward indicating termination of advanced period

41-2433 Delayed green

41-2433-1 Waits until oncoming traffic has stopped indicating beginning of delayed period

41-2433-2 Turns left across path of oncoming traffic

41-244 Oncoming traffic approaching intersection

41-2441 Proceeds through intersection if it does not impede progress of oncoming traffic

41-2442 If oncoming traffic is close

41-2442-1 Proceeds to center of intersection

41-2442-11 Remains to the right of center line

41-2442-12 Keeps motorcycle pointed straight ahead

41-2442-13A Keeps foot firmly on brake (may pump brake to flash brake light)

41-2442-2 Waits until oncoming traffic has traversed intersection

41-2442-3 Reassesses oncoming traffic for acceptable gap

41-2442-31 If turning will not impede progress of oncoming vehicles

41-2442-311 Checks cross street to the left to make sure it is clear of pedestrians and vehicles

41-2442-312 Turns motorcycle to the left and proceeds with turn

41-245 Oncoming traffic turning toward driver's right

41-2451 Proceeds partially into intersection and stops

41-2451-1 Remains to right of center line

41-2451-2 Keeps motorcycle pointed straight ahead

41-2451-3 Keeps foot firmly on brake

41-2451-4 Observes oncoming vehicle to verify turn

41-2452 Once oncoming vehicle has stopped or indicated intention to stop

41-2452-1 Stops in advance of oncoming vehicle, leaving sufficient heading to complete turn
Negotiating Intersection

TRAVERSES INTERSECTION

41-2452-2 Pauses and observes any traffic passing to the right of oncoming vehicle
41-2452-21 Yields to any through traffic
41-2452-22 Checks cross street to the left for pedestrians or vehicles
41-2453 Completes left turn after oncoming traffic has cleared intersection or after light has changed
41-246 Oncoming traffic turning toward driver's left
41-2461 Proceeds partially into intersection and stops
41-2462 Pauses until oncoming vehicle begins turn
41-2463 Turns left into far left lane of cross street
41-2464 If only one lane is available, waits until oncoming vehicle has turned and then follows

41-25 Negotiating traffic circles
41-251 Enters traffic circle
41-2511 Yields to vehicles already in circle
41-2512 Enters circle in counterclockwise direction
41-252 Drives through traffic circle
41-2521 Remains in outside lane if traveling less than halfway around circle
41-2522 Enters inside lane if traveling more than halfway around circle
41-253 Leaves traffic circle
41-2531 Enters outside lane in advance of exit
41-2532 Observes traffic entering circle during maneuver to outside lane
41-2533 If intended exit is missed, continues around circle again
Task 42: On-Ramps and Off-Ramps

42-1 ON-RAMPS

42-11 Approaching on-ramp

42-111 Observes signs indicating appropriate on-ramp

42-1111 Does not rely on sense of direction

42-1112 Looks for signs prohibiting entry such as "Wrong Way" or "Do Not Enter"

42-12 Entering on-ramp

42-121 Observes posted speed limit

42-122 Watches for warning signs to slow down or yield

42-123 Observes general on-ramp/main roadway configuration

42-1231 Checks to see if on-ramp feeds into right side of main roadway or left side (speed lane) of main roadway

42-1231-1A If left side, makes sure that motorcycle can travel at or slightly above speed limit before entering

42-1232 Looks to see if acceleration lane is provided at end of on-ramp

42-1233 Looks for exit off-ramps or deceleration lanes which cross over or share continuing portions of the entrance ramp

42-1234 Evaluates effect of on-ramp/main roadway configuration on available merging distance and probable merging pattern

42-1235A Looks for loose material on surface

42-124 Surveys traffic on main roadway

42-1241 If entering the main roadway from the right

42-1242 If entering the main roadway from the left

42-1242-1 Looks briefly back over right shoulder

42-1243 Evaluates location and speed of vehicles on main roadway

42-125 Surveys traffic in front of motorcycle on on-ramp or acceleration lane

42-1251 Evaluates location and speeds of vehicles on on-ramp or acceleration lane

42-126 Makes initial speed adjustment based on on-ramp/roadway configuration and survey of traffic

42-1261A Compensates for cargo or passenger by allowing more of a gap and/or opening the throttle more

42-127 If no traffic is present, continues on on-ramp and enters roadway

42-128 If traffic is present, follows procedures for driving on short entrance or long entrance ramps (see 42-13, If driving on short entrance ramps, and 42-14, If driving on long entrance ramp)

42-13 If Driving on a Short Entrance Ramp (on-ramp with a minimum or no acceleration lane provided)

42-131 Uses on-ramp to make necessary speed adjustments to merge with main road traffic

42-132 Checks traffic ahead on on-ramp

42-1321 Looks for vehicles which are stopped or slowing down on on-ramp

42-133 Selects gap

42-1331 Checks briefly for main road roadway traffic approaching from the rear

42-1331-1 If entering the main roadway from the right

42-1331-11 Looks briefly back over left shoulder

42-1331-12A Looks at rearview mirror closest to main road

42-1331-13 Compares mirror view with the over-the-shoulder view to assure the entire roadway is visible
ON-RAMPS

42-1331-2 If entering the main roadway from the left
42-1331-21 Looks briefly back over right shoulder
42-1331-22 Looks at rearview mirror
42-1331-23 May have to move head from side to side in order to view roadway

42-1332 Selects gap that will permit motorcycle to merge without interfering with progress of other vehicles

42-1333 If no gap is visible
42-1333-1 Observes ramp ahead
42-1333-2 Periodically views main roadway using mirror if possible
42-1333-3 If necessary to await an acceptable gap, stop before reaching the end of the on-ramp

42-134 Approaches main roadway
42-1341 Adopts speed that will allow motorcycle to reach main coincident with gap
42-1342 Periodically rechecks main roadway by quick shoulder glances or use of mirrors
42-1343 Rechecks traffic ahead on ramp
42-1344 Drives within borders of pavement markings or curbs that divide on-ramp from the main roadway
42-1345 If practical allows vehicle ahead to leave ramp before attempting to enter main roadway

42-135 Enters main roadway
42-1351 Enters main roadway as early as possible
42-1352 If main road traffic is present
42-1352-1 Observes lead vehicle and gap
42-1352-2 Rechecks main road traffic
42-1352-3 Signals intention to merge onto main roadway when lead vehicle is alongside motorcycle
42-1352-4 Adjusts speed to match lead vehicle
42-1352-5 AVOIDS cutting in just ahead of following vehicle even if it is necessary to reduce distance from lead vehicle

42-1353 Guides motorcycle smoothly into adjacent lane of main roadway

42-14 If driving on a long entrance ramp (on-ramp with acceleration lane provided)

42-141 Uses acceleration lane to accelerate to same speed as traffic on main roadway
42-142 Checks traffic ahead on acceleration lane
42-1421 If practical, allows vehicles ahead to leave acceleration lane before attempting to merge onto roadway
42-1422 When driving on an acceleration lane that continues on as an off-ramp or deceleration lane
42-1422-1 Watches for vehicles leaving the main roadway which are crossing over or merging onto the acceleration lane

42-143 Checks traffic on main roadway
42-1431 Checks mirrors and glances briefly over left shoulder if approaching main roadway from the right
42-1432 Checks rearview mirror and looks briefly over right shoulder if approaching main roadway from the left
42-144 Selects gap
42-1441 Selects gap that will permit motorcycle to merge onto main roadway without interfering with progress of other vehicles
On-Ramps and Off-Ramps

ON-RAMPS

42-1442 If no gap is visible, hesitates on beginning portion of acceleration lane if necessary to await on acceptable gap

42-1442-1 Does not stop on acceleration lane

42-145 Signals intention to enter main roadway

42-1451 Signals when ready to merge onto main roadway, i.e., when lead vehicle on main roadway is alongside motorcycle

42-1452 If portion of acceleration lane also serves as deceleration lane for off-ramp, signals upon reaching common portion of lane

42-146 Enters main roadway

42-1461 Observes lead vehicle and gap

42-1462 Rechecks following vehicle positions using mirror

42-1463 Makes minor adjustments to match speed of lead vehicle

42-1464 Avoids cutting in just ahead of following vehicle

42-1464-1 May have to follow lead vehicle more closely than normal

42-147 Guides motorcycle smartly and smoothly into adjacent lane of main roadway

OFF-RAMPS

When preparing to leave roadway

42-21 Watches for advanced signs along roadway indicating proximity of desired exit

42-211 Watches for signs indicating whether desired exit is located to the right or left of the roadway

42-212 When nearing desired exit

42-2121 Makes early and smooth transition into the lane on which the desired exit is located (see 34, Lane Changing)

42-213 Maintains speed

42-214 Watches for off-ramp and off-ramp deceleration lane

Approaching and entering off-ramp

42-22 If deceleration lane is provided

42-2211 Moves into deceleration lane as soon as safely possible after onset of deceleration lane (see 34, Lane Changing)

42-2212 Begins deceleration after moving into deceleration lane; does not decelerate on roadway

42-2213 Looks for posted signs indicating off-ramp speed limits

42-2214 Estimates off-ramp length and curvature and determines extent of deceleration required on deceleration lane

42-2215 Glances at speedometer to ensure appropriate deceleration prior to entering the off-ramp

42-2216A Looks for loose material on surface

42-2216 If deceleration lane for desired off-ramp is also part of acceleration lane for vehicles entering the roadway

42-2216-1 Watches for vehicles entering the deceleration lane

42-2216-2 Adjusts speed to accommodate entering traffic

42-2217 Guides motorcycle smoothly onto off-ramp

If deceleration lane is not provided

42-222 Signals for turn onto off-ramp

42-222 Begins decelerating on roadway

42-222-1 Does not decelerate more than necessary to achieve appropriate speed for entering off-ramp

42-2223 Looks for posted signs indicating off-ramp speed limits

42-2224 Estimates off-ramp length and curvature and determines deceleration required on roadway prior to off-ramp

42-2225 Glances at speedometer to ensure appropriate deceleration prior to entering off-ramp

50
On-Ramps and Off-Ramps

OFF-RAMPS

42-2226 Watches for roadway entrances in proximity of off-ramp
42-2226-1 Watches for vehicles merging into and diverging out of the roadway
42-2226-2 Adjusts speed to accommodate entering traffic
42-2227 Guides motorcycle smoothly onto off-ramp
42-23 When on off-ramp
42-231 Positions motorcycle in center of off-ramp lane well clear of fixed barriers
42-232 Observes speed limit sign if posted
42-233 Glances at speedometer to ensure appropriate deceleration
42-234 Observes signs giving alternate destinations on cross roadway
42-235 Observes general configuration of interchange
42-236 Watches for forks in off-ramp roadway leading to alternate destination roadways
42-236-1 Positions motorcycle in appropriate lane of off-ramp to proceed to desired destination (see 34, Lane Changing)
42-236-2 Watches for other vehicles changing lanes
42-237 When nearing end of off-ramp
42-237-1 Decelerates and prepares to stop at end of off-ramp
42-237-2 Watches for other vehicles which may be stopped or waiting in line at end of off-ramp
42-237-2-1 Increases rate of deceleration if necessary to safely stop in back of waiting vehicles
Task 43: Negotiating Hills

43-1 UPGRADERS

Approaching upgrades

43-11 May accelerate slightly if motorcycle is underpowered relative to hill

43-111 Considers the effect of cargo and passenger on motorcycle performance

43-112 Checks following traffic for trucks, or other heavy vehicles that may be "highballing," i.e., approaching hill with excessive speed (see 36-13, Reacting to Being Followed)

43-113 Selects appropriate lane

43-1131 If motorcycle is underpowered or will be operating at low speed

43-1131-1 Selects far right lane

43-1131-2 Uses auxiliary climbing lane if available

43-12 Negotiating upgrade

43-121 Maintains constant speed on upgrade

43-1211 Applies sufficient throttle to maintain speed

43-1212 If engine begins to "lug" (vibrate), shifts to lower gear (see 15, Speed Control)

43-1213 Watches for signs of overheating, e.g., loss of power especially on long steep upgrades

43-1213-1 If motorcycle overheats, downshifts

43-1213-2 If motorcycle continues overheating, pulls off roadway (see 62, Responding to Motorcycle Emergencies)

43-122 Watches for slow-moving vehicles on long or steep upgrade

43-13 Approaching crest

43-131 Decelerates slightly to compensate for limited sight distance and for anticipated increase in speed upon cresting

43-131A May stand up on foot pegs to see over very sharp crest

43-132 When driving on a narrow road

43-1321A Keeps to right of roadway center

43-1322 Sounds horn to alert oncoming vehicles when there is a change in horizontal or vertical alignment

43-14 Upgrades with snow or ice (see 46, Road Surface and Obstructions/Hazards)

43-2 DOWNGRADERS

Approaching downgrade

43-211 Looks for signs indicating length and/or gradient of downgrade

43-212 Judges length and gradient of downgrade

43-213 If downgrade is long and/or steep

43-213-1 Tests brakes prior to beginning downgrade

43-213-2 Shifts into lower gear before beginning downgrade

43-22 Negotiating downgrade

43-221 Maintains constant speed

43-2211 Closes throttle to prevent acceleration

43-2212 If motorcycle continues to accelerate

43-2212-1 Applies both brakes partially throughout descent

43-2212-2 If grade is long, may shift into lower gear

43-2212-3 If brakes fade or fail (see 62, Responding to motorcycle emergencies)

43-222 Periodically observes traffic behind for vehicles may be accelerating excessively (see 43-112, Approaching Upgrades)
Negotiating Hills

DOWNGRADES

43-223 When meeting an oncoming vehicle on a narrow downgrade
43-2231 Yields right to vehicle on upgrade
43-2232 If necessary, moves into safe turn-out to allow vehicle to continue

43-23 Approaching bottom of downgrade
43-231 Shifts back into normal driving gear
43-232 Accelerates to normal driving speed
43-24 Downgrades with snow and ice (see 46, Road Surface and Obstructions/Hazards)
Task 44: Negotiating Curves

44-1 OBSERVES FOR CURVES
44-11 Watches roadside signs for warning of curves
44-12 Watches road ahead for indication of a curve

44-2 APPROACHES CURVES
44-21A Slows down to slightly below posted speed limit
44-22 If limit not posted, estimates safe speed from degree of curvature and banking
44-23 Checks speedometer to verify speed
44-24 If rate of curvature is greater than anticipated, slows down by closing throttle and may apply brakes

44-3 DRIVES THROUGH CURVE
44-31 Looks well ahead of turning path
44-31A Be prepared to slow down or take evasive action due to unexpected road surface conditions
44-32A Leans body to follow cycle and turns handlebars as needed to maintain position within lane
44-34A May accelerate slightly in curve for added traction
44-35 When visibility is obscured by vegetation or darkness, reduces speed to keep braking distance within sight
44-35A Uses front brake cautiously, avoids use on loose or slippery surfaces

44-4 LEAVES CURVE
44-41 When approaching straightaway, may permit motorcycle to drift toward outside of roadway to relieve stress on balance
44-42 Accelerates to original or new posted speed

44-43 When visibility is obscured by vegetation or darkness, reduces speed to keep braking distance within sight
44-44A Uses front brake cautiously, avoids use on loose or slippery surfaces

44-45 LEAVES CURVE
44-45A When approaching straightaway, may permit motorcycle to drift toward outside of roadway to relieve stress on balance
44-46 Accelerates to original or new posted speed
Task 45: Lane Usage

45-1 GENERAL
45-11 Drives in far right lane
45-12 Uses left lane(s) to pass
45-13A Generally positions motorcycle in left wheel track created by cars (see 36-1422A and 45-332A)
45-14 Attempts to stay in one lane as much as possible
45-14A Does not drive abreast of four-wheel vehicle in same lane
45-15 On roadway without painted lane markers, steers on course as though there were lines

45-2 FOUR LANE ROADWAY (OR TWO LANE ROADWAY, ONE WAY)
45-21 May pass in right lane if traffic is stabilized in left lane

45-3 SIX (OR MORE) LANE ROADWAY (OR AT LEAST THREE LANE ROADWAY, ONE WAY)
45-31 Drives in right lane
45-311 When driving slowly
45-312 When preparing to leave roadway
45-32 Drives in center lane(s) for through movement
45-33 Drives in left lane to pass
45-331 May pass in center or right lane(s) if traffic is stabilized in left lane
45-332A Positions motorcycle in right wheel track when driving in far left lane
Task 46: Road Surface and Obstructions/Hazards

46-1 TYPE OF ROAD SURFACE
46-11 Observes nature of road surface materials upon which motorcycle is being driven
46-12 Adjusts motorcycle speed, movements of motorcycle and following distance to nature of road surface
46-121 If driving on a dirt, gravel, wooden, or brick roadway surface:
   46-1211 Drives slower than when on a dry paved roadway
   46-1211A Uses front brake cautiously
   46-1212 Avoids sharp turning movements
   46-1212-1A Slow down before entering turn
   46-1212-2A Does not use front brake during turn
   46-1212-3A Maintains balance by slightly accelerating during turn
   46-1212-4A Leans motorcycle more than body during turn to permit quick balance correction in case of skid
46-1213 Increases following distance
46-13 Watches for conditions specific to type of road surface materials
   46-131 Anticipates slipperiness of concrete or asphalt road surface at intersections
   46-132 On a dirt road, watches for loose soil conditions and hazardous objects, like rocks, glass and sharp metal, embedded in the dirt
   46-133 On a gravel road, watches for loose gravel, ruts, etc.
   46-134 On a wooden surface, watches for cracks, holes, and nails
   46-135 On a brick road, watches for holes, bumps, cracks, and slippery spots

46-2 SURFACE IRREGULARITIES
46-21 Observes roadway surface for surface defects and irregularities caused by weather and/or general road deterioration
   46-211 If roadway bumps, washboard conditions, potholes, or pavement cracking are observed:
      46-2111 Reduces motorcycle speed
      46-2111A Transfers weight from seat to footpegs
      46-2112 Anticipates additional deteriorative effects of roadway ahead
46-22 Watches for roadside signs indicating road condition ahead
   46-221 Reduces speed of motorcycle in advance of affected area
46-23 If potholes are observed in the roadway lane in front of motorcycle
   46-231 Reduces speed of motorcycle prior to the pothole
   46-232 Attempts to avoid motorcycle wheels going through the pothole
      46-2321 Attempts to position motorcycle in lane to go around pothole if possible
      46-2322 If positioning motorcycle within lane to avoid pothole
      46-2322-1 Checks roadway traffic to ensure that lateral movement of the motorcycle will not interfere with other traffic
      46-2322-2 Does not signal turn if steering maneuver will result in motorcycle maintaining position still within lane
   46-233 Changes lane only if lane changing is permissible with no interference to existing traffic (see 34, Lane Changing)

56
SURFACE IRREGULARITIES

46-2331 Applies brakes to slow motorcycle down before the pothole
46-2332 Releases brakes while motorcycle is going through the pothole
46-2333 Grasps handlebars firmly and makes corrective steering movements to maintain balance of the motorcycle
46-2334A Transfers weight to footpegs and pulls up on handlebars
46-2335A Grasps motorcycle tank with knees
46-24 When road surface ruts are present in gravel or dirt roads
46-241 Reduces speed of motorcycle
46-242 Assesses road surface characteristics adjacent to rut and depth of rut
46-2421 Avoids driving in rut if adjacent surface is firm and compact or if rut is deep
46-2422 Drives in rut if adjacent surface is not firm and rut is shallow and wide
46-243 If driving in rut
46-2431 Drives slowly with firm grasp of handle bars
46-2434A Balances motorcycle by shifting weight instead of by steering
46-2435A Opens throttle and pulls upward on handlebars while standing on footpegs to help front wheel climb out of rut
46-2436A Keeps feet ready to help maintain balance of motorcycle

ROAD COVER (UNDER SEVERE CONDITIONS AVOIDS RIDING MOTORCYCLE IF POSSIBLE)

46-31 Driving on roadways covered with water, ice, snow, sand or mud
46-311 Drives slower than on dry pavement
46-311A To avoid loss of traction, leans the motorcycle as little as possible, especially if cornering
46-311B Avoids use of front brake
46-311C When brakes must be applied, uses rear brakes first and pumps gently
46-312 Increases following and lateral distances
46-312A Avoids roadway markings since they are likely to be slippery when wet
46-312B Avoids or is particularly careful on wet metal surfaces
46-313 Maintains smooth even acceleration
46-314 Alternates speed and direction of travel gradually
46-3141 If additional pulling power is required on wet and slippery roads
46-3141-1 Decelerates until motorcycle is moving at a safe speed and shifts to lower gear
46-3141-2A Shifts weight to rear
46-315 Decelerates in advance of normal requirement when approaching intersections, curves and downgrades
46-316 Allows for increased stopping distances
46-32 Driving on wet roadway
46-321 Drives with extreme caution during first few minutes of rainfall
46-321A Avoids the center of the lane since it is most likely to be slick
ROAD SURFACES and Obstructions/Hazards

ROAD COVER (UNDER SEVERE CONDITIONS AVOIDS RIDING MOTORCYCLE IF POSSIBLE)

46-322 Watches for areas of roadway which are soaked with oil or grease

46-3221 Avoids oil-soaked areas if possible

46-3222A If necessary to drive through oil-soaked portions of the roadway, drives slowly to avoid the greatest potential for skidding and avoids turning sharply enough to require leaning motorcycle

46-323 Tests braking response periodically by light pumping of the brake pedal

46-3231 If driving in cold wet weather, depresses brake pedal lightly at frequent intervals

46-324 Follows tracks of other vehicles if possible

46-325 If water depth exceeds tire tread depth

46-3251 Drives at more moderate speed

46-3252 Decelerates as soon as tires make slushing sound to prevent hydroplaning

46-3253 Further increases following distance when behind other vehicles

46-3254A If hydroplaning occurs, closes throttle and puts feet down to balance motorcycle

46-326 If deep water partially or totally covers roadway

46-3261 Decelerates in advance of affected area

46-3262 Estimates depth and extent of coverage

46-3263 Steers motorcycle around affected area if possible

46-3264 If driving through deep puddle is necessary

46-3264-1 Proceeds slowly and in low gear through the water

46-3264-2 Attempts to avoid engine stalling

46-3265 After driving through deep water

46-3265-1 Checks brakes to see if they are operating properly

46-3265-2 Attempts to dry brakes if they are not operating properly

46-3265-21A Drives for short distance with foot on the brake pedal and throttle open to maintain speed

46-3265-22 Rechecks brake response to see if brakes have dried and are operating normally

46-327 Decelerates in advance of a bridge or culvert in wet weather at near-freezing temperatures

46-328 If approaching wet leaves on roadway

46-3281 Decelerates in advance of affected area

46-3282 Drives through area maintaining smooth, even acceleration with minimum changes in motorcycle speed and direction of movement

46-329 If approaching a crosswalk with nearby puddles, decelerates to avoid splashing pedestrians

46-33 Driving on snow- or ice-covered roadway

46-331 Generally performs the following

46-3311 Steers motorcycle by small, smooth adjustments

46-3312 Starts, stops and turns motorcycle gradually

46-3313 Anticipates the effect of traffic and temperature on road surface friction

46-3314 If approaching snow- or ice-covered intersections

46-3314-1 Reduces speed in advance of intersection

46-3314-2 Observes movement of vehicles approaching on side streets

46-3314-21 Observes vehicle wheels to see if they are moving as vehicle slows down
ROAD COVER (UNDER SEVERE CONDITIONS AVOIDS RIDING MOTORCYCLE IF POSSIBLE)

46-3315 If driving in a residential area, looks for children sledding, sliding and playing in the snow or on the ice unmindful of vehicular traffic

46-3316 If road surface condition worsens

46-3316-1A Finds storage place for motorcycle

46-332 Driving on snow-covered roadway

46-3321 Starting the motorcycle in motion through the snow (see 13, Accelerating)

46-3321-1 If motorcycle will not move forward

46-3321-11 Avoids spinning the rear wheel

46-3321-12 Keeps front wheel straight

46-3321-15A Shifts weight to the rear wheel

46-3321-16A Helps motorcycle move and balances with feet when necessary

46-3322 If motorcycle is stuck in deep snow or snowdrift

46-3322-1A Dismounts and moves motorcycle sideways by lifting and sliding one wheel at a time

46-3323 Negotiating deep snow

46-3323-1 Shifts into lower gear before entering the deep snow

46-3323-2 Attempts to keep the motorcycle moving through the snow

46-3323-3A Shifts weight to rear wheel

46-3323-4A Maintains balance with feet if necessary to turn

46-3324 Stopping motorcycle in snow (see 16, Stopping)

46-3324-1 Allows sufficient room to stop

46-3324-2 Brakes motorcycle early for stopping

46-3324-3 Looks for location where traction will be most effective

46-3324-31 Looks for bare pavement or loose snow

46-3324-32 Avoids traffic-packed snow

46-3324-33 If emergency stop is required, drives into snow-drift

46-3324-34 Avoids stopping on upgrade if possible. May stop in advance to avoid need to stop in upgrade

46-3325 Parking in heavy snow conditions

46-3325-1A Removes motorcycle from roadway or any area to be plowed

46-333 Driving on ice-covered roadway

46-3331 Starting the motorcycle on glare ice

46-3331-2A Keeps feet down and starts motorcycle slowly to avoid spinning the wheels

46-3331-21 Uses low gear with smooth clutch operation

46-3331-211 Uses second or high gear if wheel spins in low

46-3332 If driving on ice at about freezing temperature, approaches curves and intersections slowly

46-3333 If ice is melting on the roadway

46-3333-1 Reduces speed

46-3333-2 Increases following distance to compensate for slicker surface

46-3333-3 Looks for ice patches near shaded areas, e.g., underpasses, and buildings

46-3333-4 Watches for spots where direct sunlight may have accelerated melting

46-3333-5 On multi-lane roads, avoids passing in far left lane because passing lane is more likely to have ice patches than outside lanes
Road Surfaces and Obstructions/Hazards

ROAD COVER (UNDER SEVERE CONDITIONS AVOIDS RIDING MOTORCYCLE IF POSSIBLE)

46-3334 When encountering patches of ice on roadway
46-3334-1 Slows down before reaching area
46-3334-2 Maintains constant speed through ice patch area
46-3334-21 Avoids applying brake while traversing icy patch
46-3334-3 Steers straight while traversing icy patch
46-3334-31A Keeps feet ready to balance motorcycle
46-3334-4 Anticipates additional patches ahead on roadway
46-3335 If attempting to stop on ice
46-3335-1A Pumps the rear brake pedal up and down rapidly to apply and release the brake
46-3335-2A Turns motorcycle sideways in skid
46-3335-3A Puts following foot down to balance motorcycle
46-334 If driving on snow- and/or ice-covered grades
46-3341 Maintains constant speed or accelerates slightly on approach to upgrade
46-3342 Maintains constant throttle opening on the upgrade
46-3343 Decelerates in advance of downgrades
46-3343-1 Downshifts if necessary before the downgrade to minimize the need for downhill braking

46-34 Driving on sand-covered roadways
46-341 If drifts are on roadway
46-341A Slows down
46-3411 Steers around drifts in preference to going through them (motorcycle control is easily lost when riding on loose material)
46-3412 If necessary to proceed through drift (see 46-31, Ice, snow, sand, or mud)
46-342 If motorcycle becomes stuck in sand
46-3421 Keeps front wheel straight
46-34241 Slides weight far back on rear wheel
46-3425A Applies as much power as possible to rear wheel to get front wheel up on surface
46-3426A Keeps power on and speed up to maintain steering control
46-3427A Keeps feet ready to maintain balance if necessary
46-3428A May dismount and push motorcycle, if safe to do so
46-3429A Abandons motorcycle if it appears to be in the path of rapidly approaching on-coming or following vehicles

46-4 ROADWAY EDGES
46-41 Observes roadway edges while driving
46-411 Looks for roadway edge markings
46-412 Looks for indications of deteriorating edges
46-4121 Drives at slower speeds where evidence of edge deterioration exists or increases motorcycle separation distance from edge
46-413 Observes vertical alignment of roadway edge with shoulder or off-road terrain
46-4131 Looks for rise or drop off at edge of pavement
46-4132 Avoids driving near vertically misaligned edges
46-414 Observes nature and condition of shoulder
46-4141 Drives at slower speeds when no roadway shoulder is provided
ROADWAY EDGES

46-4142 Estimates width and surface characteristics of shoulder should leaving the roadway be necessary (see 33-2, Leaving Traffic)

46-42 Avoids driving off edge of roadway if possible (see 14, Steering)

46-43 If crossing roadway edge to drive off pavement (see 33-2, Leaving Traffic)

46-431 Reduces speed and turns to right to cross edge at sharp angle

46-44 If one or two wheels unintentionally drop off the edge of the pavement

46-441 Grasps handlebars firmly to keep front wheel straight

46-441A Leans toward shoulder to get away from edge of pavement

46-4411 Does not attempt to immediately bring the motorcycle back onto the pavement

46-442 Reduces motorcycle speed gradually

46-4421 Gradually closes throttle

46-4422 Avoids braking if possible

46-4422-1 If braking is required, uses gentle on-off pressure on the brake pedal (stability of motorcycle is less because of rough or loose surface)

46-443 Checks roadway ahead, to the side and to the rear of the motorcycle

46-444 After speed is greatly reduced, turns motorcycle sharply to climb the pavement

46-5 ROADWAY OBSTRUCTIONS

46-51 Objects on roadway

46-511 Watches for hazardous objects lying on or near the roadway such as rocks, glass, fallen branches and debris

46-5111 Looks for warning signs along the roadside indicating hazardous objects on the roadway ahead

46-5112 After prolonged or heavy rains

46-5112-1 Watches for large puddles, riverlets, etc., particularly where drainage is poor

46-5112-2 Watches for rockslides and debris particularly in outside lane

46-5113 Drives at slower speeds when posted signs or physical terrain conditions indicate a high probability of encountering objects on the roadway

46-512 If objects lying on the roadway are detected

46-5121 Decelerates in advance of objects

46-5122 Avoids running over object(s)

46-5122-1 Steers motorcycle around object if possible

46-5122-3 If steering around object necessitates driving in the opposing lane

46-5122-31 Waits for break in opposing traffic before proceeding around the object on the left

46-5122-32 Does not use horn to try to stop opposing traffic

46-5122-4 If lane change is not required to miss object, does not use turn signal

46-5122-5 Does not drive over fire hose unless instructed to do so by fire department official

46-513 After encountering objects on the roadway, maintains slower speed until roadway area is again clear

46-52 Construction and barricades

46-521 Watches for indications of roadway construction and barricades
Road Surfaces and Obstructions/Hazards

ROADWAY OBSTRUCTIONS

46-5211 Looks for warning signs indicating roadway obstructions, construction or road repairs ahead

46-5212 Listens for sounds such as air hammer chatter or heavy machinery in operation denoting roadway construction or repair work

46-5213 Watches for movement of men, trucks and heavy equipment indicating road work ahead

46-522 If approaching an area of roadway repair or barricade

46-5221 Drives at slower speed and prepares to stop if required

46-5222 Watches for flagmen and detour instructions

46-523 If negotiating an area of road construction or repair or traversing around a barricade

46-5231 Follows flagman and detour instructions

46-5232 Maintains a reduced rate of speed

46-5233 Maintains an increased alertness to the movements of men and machinery

46-524 Resumes normal speed only after passage through the affected area

46-5241 Watches for flagmen or signs indicating roadway return to normal conditions
Task 47: Turnabouts

47-1 U-TURNS

47-11 General

47-111 Prepares to turn

47-1111 Determines that U-turns are permitted

47-1112 Checks for oncoming and rear-approaching traffic

47-1113 Waits until the roadway is clear

47-1114 Gives left turn signal

47-1115 Shifts to first or second gear

47-112 Turns

47-1121A Leans motorcycle to left and steers front wheel to left to maintain balance

47-1122 Accelerates slowly while turning

47-1123 Steers motorcycle into right-hand lane

47-113 Proceeds in opposite direction

47-1131A Returns motorcycle to vertical

47-1131 Straightens front wheel

47-1132 Checks traffic, particularly rear-approaching vehicles

47-1133 Accelerates to fit into traffic pattern

47-12 At mid-block

47-121 Selects location far enough from intersection to avoid conflict with other traffic

47-122 Positions motorcycle close to right-hand curb before turning

47-1221 Signal and stop if necessary

47-13 At urban intersections or on divided highways

47-131 Positions motorcycle in lane nearest center of roadway

47-132 Stops at and scans intersection for possible hazards

47-133 Moves slowly toward center of intersection

47-134 Turns left sharply as front wheel enters middle of intersection

47-14 At residential or narrow street intersections

47-141 May use cross street to gain wider turning arc

47-1411 Veers to the right before turning sharply to the left

47-1412 Steers toward opposite side of cross street for continuous turning movement

47-1413 Pulls back onto roadway

47-15 Near crests or curves, in general makes U-turn only if motorcycle can be seen from 500 feet by oncoming vehicle

47-4 WHERE TURNABOUTS ARE PROHIBITED, ACCOMPLISHES EQUIVALENT MANEUVER BY

47-41 Doubling back by a series of three right turns and one left turn at intersections or

47-42 Turning left, then right three times at intersections to proceed in opposite direction

* New Statement
Task 48: Off-Street Areas

48-1  APPROACHING ENTRANCES TO DRIVEWAYS, ALLEYS AND PARKING LOTS
48-11  Looks ahead to determine location of entrance to driveway, alley or parking lot
48-12  If approaching entrance from the right
48-121  Signals right turn in advance of entrance
48-122  Pulls to right edge of roadway
48-13  If approaching entrance from the left
48-131  Signals left turn in advance of entrance
48-132  Positions motorcycle in lane just to the right of the center lane, or if permitted, in center lane on a three lane road
48-133  Yields to oncoming traffic
48-134  May cross double yellow lines or undivided four-lane road when turning
48-14  If intended to turn into an entrance immediately beyond an intersection
48-141  Does not signal in advance of intersection
48-142  Initiates signal when motorcycle is halfway through the intersection
48-16  Approaches entrances to driveways, alleys and parking lots at appropriate speed
48-161  Drives slowly enough to effect a safe and comfortable entry
48-162  Does not stop or impede traffic unnecessarily
48-17  Watches for other traffic entering or exiting the off-street area
48-18  Looks for specific entrance and exit designations
48-181  Notes curbing or other entry markers or structures
48-182  Looks for presence of signs or entryway markings indicating direction of travel
48-19  Adjusts position of motorcycle to provide proper clearance for entering

48-2  ENTERING DRIVEWAY, ALLEY OR PARKING LOT
48-21  Checks to see that entrance is clear of vehicles, pedestrians and objects before entering
48-211  Does not enter until entrance is clear
48-212  If necessary, removes objects from entrance before entering
48-22  Turns into off-street area entrance
48-221  Maintains safe entrance speed
48-222  Clears entrance
48-2221  Ensures that motorcycle is completely through entrance way and off the main roadway before stopping
48-2222  Avoids stopping immediately after entering unless required
48-223  If entering a commercial parking lot or parking area requiring parking fees
48-2231  Looks for parking instructions upon entering
48-2231A  If gated entrance prepares to stop since gate may not go up

48-3  DRIVING IN OFF-STREET AREAS
48-31  Drives no faster than 10 to 15 miles per hour
48-31A  When in doubt uses horn to assure that motorcycle presence is known
Off-Street Areas

DRIVING IN OFF-STREET AREAS

48-32 Watches for vehicle and pedestrian traffic in or crossing the motorcycle path

48-33 Watches for children playing or darting into path of motorcycle from behind vehicle, structures or vegetation

48-34 Watches out for toys, objects and debris in path of motorcycle

48-35 If meeting an oncoming vehicle in driveway, alley or in parking lot lane

   48-351 If sufficient clearance exists for two vehicles to pass by each other
   Edges over to extreme right side of roadway to permit the oncoming vehicle to pass by

   48-352 If sufficient clearance is not available
   Prepares to yield right of way to oncoming vehicle

   48-3521 Pulls into adjoining driveway or turnout if available

48-36 If driving in an alley

   48-361 Watches for traffic entering the alley from adjoining driveways

48-37 If driving in a parking lot

   48-371 Drives only in travel aisles
   Does not cut across designated parking spaces

   48-372 Drives only in direction indicated by aisle markings or signs

   48-373 Watches for vehicle and pedestrian traffic that may be entering or crossing the traffic aisle from any direction

   48-374 Watches for vehicles backing up to exit or enter a parking space

48-4 EXITING OFF STREET AREAS

48-41 Looks for markings or signs indicating designated exits

48-42 Uses designated exits only for leaving off street areas

48-43 Leaves off-street area exit facing traffic if possible

48-44 When facing traffic

   48-441 Signals intention to turn

   48-442 If no traffic signal is present, brings motorcycle to a full stop in advance of entering roadway

   48-443 Yields to traffic on roadway before entering
Task 49: Railroad Crossings, Bridges and Tunnels, Toll Plazas

49-1 RAILROAD CROSSINGS

49-11 Looks for advanced indications that railroad crossing is near

49-111 Watches for advanced circular warning signs along roadway, road markings, or other physical indications that a railroad crossing is immediately ahead

49-112 Reduces speed and prepares to stop if necessary at crossing

49-113 If following school bus, commercial passenger vehicle or tank truck, prepares to stop behind vehicle

49-12 When approaching a railroad crossing with no signal

49-121 Decelerates

49-123 Looks in both directions quickly

49-1231A If clear visibility and no trains in sight, accelerates slightly and crosses immediately

49-1231A-1 Grasps handlegrips tightly and instructs passenger (if any) to hold on tightly

49-1231A-2 Crosses tracks at right angle and between the ties to avoid getting "trapped" in the ruts

49-1231A-3 Avoids sharp changes in speed or direction

49-1231A-4 Keeps motorcycle as vertical as possible

49-1232 If train is approaching, stops motorcycle within 50 feet but not less than 15 feet from nearest rail

49-13 When approaching a signalized railroad crossing, i.e., flashing light signals or gates

49-131 Decelerates motorcycle and prepares to stop in advance of crossing if signal is activated

49-1311 If signal is not activated, listens for sound of approaching train and looks in both directions before crossing tracks

49-1311-1 May proceed without stopping if

49-1311-11 No train is coming

49-1311-12 Train is stopped at a distance

49-1311-13 Train is moving slowly at some distance

49-1312 If signal is activated, brings motorcycle to a complete stop in advance of signal

49-14 When stopped at a no signal crossing waiting for an approaching train

49-141 Waits for train to completely clear roadway before starting to cross

49-142 If stopped at a multi-track railroad crossing

49-1421 Remains stopped until the initial train has completely cleared the crossing and the view is clear in both directions on the other tracks

49-1422 Remains stopped if other trains are approaching

49-1423 Proceeds to cross tracks if no trains are approaching

49-15 When stopped at a signalized crossing

49-151 Remains stopped until signal indicates track is clear

49-152 Observes both directions of tracks

49-153 Proceeds across tracks when a clear view of all tracks in both directions is available

49-154 If signal is activated and no trains are approaching or a signal train is approaching at a very slow rate of speed at some distance

49-1541 Rechecks both directions of all tracks

49-1542 Proceeds immediately across tracks if clear

49-155 Proceeds across tracks if flagman motions to do so

49-16 When crossing railroad tracks (see 49-1231A, Clear visibility and no train in sight)
RAILROAD CROSSINGS

49-161 Does not enter crossing until sufficient space on other side of tracks exists for motorcycle to stop without projecting onto tracks

49-162 Does not stop on tracks or between separated tracks

49-163 When crossing tracks at low speed

49-1631 Starts across railroad tracks in low enough gear to prevent possible stalling

49-1632A Uses clutch slipping techniques avoiding abrupt or jerky movement of motorcycle

49-1633 Does not shift gears until motorcycle is clear of crossing area

49-164 If flashing signal or automatic gate is activated while motorcycle is in process of crossing tracks

49-1641 Continues through crossing as quickly as possible

49-1642 Does not stop

49-165 If motorcycle stalls on tracks while crossing

49-1651 If time is available

49-1651-1 Attempts to restart motorcycle after pushing motorcycle off tracks

49-1652 If train is near and rapidly approaching

49-1652-1 Instructs passenger to leave motorcycle immediately and to safely clear the area

49-1652-2 Abandons motorcycle and seeks safe area away from tracks and motorcycle

49-166A If object falls off of motorcycle and onto track

49-166A1 Do not stop on track

49-166A2 Proceed until it is safe to pull off the road

49-166A3 Walk back to tracks or make a "U" turn, if safe, and legal (see 33, Entering and Leaving Traffic, and 35, Parking)

BRIDGES AND TUNNELS

49-21 Approaching bridges and tunnels

49-211 Watches for posted signs providing information concerning

49-2111 Number of lanes available

49-2112 Lane usage and passing restrictions

49-2113 Speed limit

49-2114 Use or non-use of lights in tunnel

49-212A Removes sunglasses or slides down on nose, if worn, prior to entering tunnel

49-213 When approaching narrow bridge or tunnel

49-2131 Decelerates for better control

49-2132A Keeps to right of center to provide clearance with traffic in adjacent lane

After entering

49-221 Watches for other traffic and lane side structures

49-222 Adheres to all posted regulations

49-223 Does not stop except in response to traffic flow or emergency

49-224 Looks for special pullout areas should emergency stop be necessary

49-225 Looks for posted signs or signals indicating emergency situations ahead

49-226 Maintains proper speed
BRIDGES AND TUNNELS

49-2261 Observes speedometer frequently in tunnels to assure speed is adjusted to grades

49-227A On bridge with metal grating

49-227A1 Reduces speed before grating and then accelerates slightly for better balance

49-227A2 Drives in a gentle zig-zag pattern if rectangular grating

49-227A3 Avoids braking if possible

49-23 Exiting

49-231 Notes posted signs for exit information and speed limit ahead

49-232 Turns off lights

TOLL PLAZAS

49-31 Approaches toll plaza

49-311 Prepares to decelerate

49-3111 Notes posted speed limit

49-3112 Adjusts speed accordingly

49-3113 Prepares for merging or diverging lane

49-313 Observes traffic

49-3131 Anticipates erratic driving from other drivers whose attention may be diverted while fumbling for money

49-3132 Prepares to move either to right or left to avoid crowded lanes

49-3133 Avoids crossing more than one lane

49-3134A Does not look for change or toll card while in motion

49-314 Observes line of toll booths

49-3141 Looks to top of booths for green lights that indicate which booths are open

49-3142 Does not approach booths with red lights above

49-3143 If correct change is available, selects an exact change lane

49-32 At toll booth

49-321 Decelerates gently

49-322 Comes to a full stop parallel to booth

49-323 Exchanges money and toll card with attendant

49-324 If exact change booth

49-3241 Tosses all coins into basket

49-3242 Waits for green signal or gate to lift before proceeding

49-3243 If change misses basket

49-3243-1 Remains with motorcycle

49-3243-2 Adds additional change if available

49-3243-3 Summons attendant by sounding horn if no change is available

49-325 If necessary, asks attendant for road map and about conditions ahead

49-33 Emerging from toll plaza

49-331 Accelerates smoothly

49-332 Watches for signs indicating directions and speed limit

49-333 Prepares for merging lanes

49-334 Watches for other drivers accelerating rapidly and cutting in to get ahead of the "pack"

49-335 If entering turnpike, may pull over to temporary parking area to study map for planning stops and noting exit points
Task 51: Weather Conditions
(Under severe conditions avoids riding motorcycle if possible)

51-1 LIMITED VISIBILITY

51-11 During rain, sleet, snow, hail, fog, sun glare, or blowing sand
51-111 Drives more slowly than under normal conditions
51-111A Drives defensively, realizing motorcycle is less visible under such conditions
51-112 Increases following time or distance to compensate for decreased viewing distance
51-113 Drives in lane that permits greater separation from oncoming traffic and slower traffic ahead
51-114 Increases surveillance, particularly during precipitation and periods of heavy vehicular and pedestrian traffic (see 36-23, During Periods of Inclement Weather)

51-12 When view through windshield is obscured by
51-121 Precipitation or road spray
51-121A Rises up slightly to see over top of windshield when necessary

51-14 When visibility is reduced during the day or night by fog or intense precipitation
51-141 Turns on low beam headlights
51-142 Reduces speed so as to not overdrive visibility
51-143 Uses pavement markings (particularly those on right side) and other vehicle lights as longitudinal and lateral cues
51-144 Stops at roadside to wait out severe downpours
51-145A May stop and clean eye protection as required

51-15 When sun glare is blinding
51-151 Adjusts visor to shield eyes without obstructing view
51-152 Wears sunglasses
51-153 Looks down at roadway in front of motorcycle, not directly into the sun

51-16 During a sandstorm
51-161 Firmly grasps handlebars
51-162 Proceeds slowly if visibility permits
51-163 Watches for lane markings partially obscured by drifting sand
51-164 Stops at roadside until storm subsides if visibility worsens

51-2 TEMPERATURE

51-21 During extreme heat
51-212 Watches for signs of engine overheating
51-213 Avoids prolonged high-speed driving
51-22 During rapid temperature change to below freezing after rainfall
51-221 Watches for ice patches on roadway
51-222 Tests brakes periodically even though traffic conditions may require little braking
51-23 During extreme cold
51-233 Keeps fuel tank nearly full
51-237A Wears insulated clothes with absolutely windproof outer cover
Weather Conditions

TEMPERATURE

51-238A  Wears goggles to protect eyes
51-239A  Does not use non-pivoted faceshield which may fog up and need to be removed

51-3  WIND

51-31  When driving with a high steady or intermittent crosswind
51-311  Drives at lower than normal speed
51-312A  Grasps handlebars firmly to lean toward wind when motorcycle's balance is altered by wind force
51-313  Avoids oversteering in reacting to gusts
51-314A  Anticipates need for balance corrections when wind is screened by hills, buildings, or larger vehicles
Task 52: Night Driving

52-1 GENERAL
52-11 Drives with headlights(s) on in conditions of darkness, i.e., dusk, night, dawn, and extremely dark days
52-111 Uses low beam headlight(s) as a general rule (see exception under 52-3, Urban Driving, below)
52-112 Avoids using parking lights for driving
52-12 Drives more slowly than under similar circumstances during daylight
52-13 Maintains speed that permits stopping within distance illuminated by headlights
52-14 Watches for dark or dim objects on roadway
52-141 If dark objects appear
52-1411 See-saws eyes up and down or
52-1412 Cocks head to one side and peers out corner of eye
52-15 Watches beyond headlight(s) on and near roadway for slow moving or unlit vehicles, curves, road obstructions or defects, pedestrians and animals
52-151A Assumes single tail or head light is a car not another motorcycle
52-16 Allows greater margin of safety in performance of maneuvers than during daylight
52-161 Increases following distance
52-162 Increases distance and time for an acceptable passing opportunity
52-19 Avoids fatigue and maintains visual efficiency by
52-191A Wearing proper clothing and equipment
52-192 Taking frequent rest stops when driving for an extended period

52-2 URBAN DRIVING
52-21 Checks to see that headlight(s) are on when leaving a parking space, particularly in brightly illuminated areas where the absence of headlights may not be immediately noticeable to driver
52-22 Uses low beam headlights to avoid blinding other drivers and pedestrians
52-23 Watches for pedestrians and unlit vehicles and objects on the roadway and at curbside
52-24 In the absence of traffic speed regulations in dimly lit areas
52-241A Adjusts speed to traffic flow

52-3 RURAL DRIVING
52-31 Drives a maximum of 55 miles per hour on non-urban roadways
52-32 Uses high beam headlight(s) except when approaching an oncoming vehicle or when overtaking a vehicle
52-33 When approaching an oncoming vehicle
52-331 Uses dimmer switch to change from high to low beams
52-332 Decelerates
52-333 If necessary to remind oncoming driver to dim his headlights, flicks headlights to high then low beams once or twice
52-334 If driver of oncoming vehicle refuses to dim his headlights
52-3341 Decelerates
52-3342 Maintains headlights on low beam
52-3343 Avoids looking directly at vehicle’s bright lights
52-3344 Focuses eyes to right side of roadway beyond oncoming vehicle
52-3345 Closes one eye as vehicle draws near to save it until vehicle passes
52-3346 Maintains slower speed for a period of time after vehicle has passed
52-34 Uses tail lights of vehicle ahead as indication of closing rate
52-35 When following another vehicle (see 31, Following)

71
Night Driving

RURAL DRIVING

52-351 Dims headlights from high to low beams at 500 feet distance
52-352 Increases following distance
52-36 When being followed by another vehicle with bright lights
52-361 Flicks headlight(s) from high to low beams once or twice as a reminder to following driver to dim his lights
52-362 If following driver does not dim lights
52-3621A Decelerates gradually and keeps in left wheel track of right lane
52-3622A Leaves roadway and forces following vehicle to pass at first safe opportunity
52-363 Avoids looking directly at rearview mirror(s)

52-37 When approaching a pedestrian or animal
52-371 Dims light(s) to low beams
52-372 Decelerates
52-373 Watches pedestrians or animal for indication of change in direction of movement
52-374 Prepares to take evasive action should pedestrian or animal enter roadway

52-38 When approaching an animal refuge or crossing area
52-381 Decelerates
52-382 Watches for animals on or alongside roadway

52-4 DRIVING AT DUSK/DAWN OR ON DARK DAYS
52-41 Turns on low beam headlight(s)
52-42 Drives slower, giving increased attention to traffic
52-43 Removes sunglasses or tinted eyeglasses at dusk
52-44 Uses nontinted contact lenses from dusk on

52-5 PARKING ON SHOULDER
52-51 Positions motorcycle well off to right of roadway
52-52A Uses turn signal flasher units to denote parked motorcycle if available
Task 61A: Carrying Packages or Luggage

61A-1 IN GENERAL, WHEN CARRYING PACKAGES OR LUGGAGE

61A-11 If available, uses a carrier or saddlebag, if not lashes load securely on seat behind operator

61A-111 Anticipates effect of load on motorcycle handling characteristics

61A-12 Drives at slower speeds

61A-13 Avoids abrupt maneuvers and movements of motorcycle

61A-14 Allows more distance in preparing to stop

61A-15 Increases following distance

61A-16 Checks tire inflation pressure to maintain proper inflation of each tire

61A-17 Checks load lashing periodically to ensure that objects are properly restrained and load shifting has not occurred

61A-22 Makes sure that objects do not interfere with accessibility to motorcycle controls and ease of control operation

61A-23 If traveling at night

61A-231 If oncoming vehicles keep blinking headlights when motorcycle headlights are on low beam

61A-2311 Stops at first safe opportunity to adjust elevation of headlight

61A-2312 Redistributes loading if necessary to achieve a more uniform distribution of weight on the motorcycle
Task 62: Responding to Motorcycle Emergencies

**RESPONDING TO CRITICAL ON-ROAD EMERGENCIES**

62-1

If throttle is stuck in the open position

62-11

Checks to see if roadway is clear well ahead

62-111

If plenty of distance is available

62-111-1A

Attempts to release stuck throttle by snapping twistgrip open and shut

62-111-2

Does not take attention from roadway

62-111-3A

Controls speed as well as possible with brakes

62-1112

If traffic is heavy and clear distance ahead is limited

62-1112-1

Turns off ignition

62-1112-11A

Attempts to release stuck throttle by snapping twistgrip open and shut

62-1112-2

If plenty of distance is available

62-1112-111

Attempts to release stuck throttle by snapping twistgrip open and shut

62-1112-3

Controls speed as well as possible with brakes

62-1112-4

Leaves roadway as soon as safely possible (see 33-2, Leaving Traffic)

62-11

Brake failure

62-12

If brakes begin to fade on steep downgrades or after repeated stops at high speed

62-121

Leaves roadway as soon as safely possible (see 33-2, Leaving Traffic)

62-1211

Stops motorcycle off roadway and lets brakes cool off

62-123

If complete loss of braking function occurs

62-123A

Closes throttle

62-123B

Downshifts progressively to lower gears

62-123B

Turns off ignition

62-123C

Prepares to stop with aid of feet at low speed

62-123D

Steers motorcycle onto shoulder, or into field if necessary

62-123E

Uses horn or lights to warn other drivers that motorcycle is out of control

62-124

If brakes fail and a quick stop is vital

62-1241

Leaves roadway in such a manner as to avoid collision with roadside fixed objects (see 33-2, Leaving Traffic)

62-1242A

As a last resort, throws motorcycle into slide by initiating too sharp turn away from roadway

62-125

If brakes are wet after driving through water

62-1251

Attempts to dry brake linings (see 46-32, Driving on Wet Roadways)

62-13

If headlights fail while driving on roadway at night

62-131

Attempts to restore lights by flicking dimmer switch both ways

62-132

Slows down motorcycle as quickly as possible

62-133

Maintains motorcycle in its path

62-134

Looks for objects that might aid in orientation

62-135

Tries the parking lights or any auxiliary lights on the motorcycle

62-136

Looks for place to safely leave the roadway

62-137

Steers gradually off the roadway as far as possible and stops (see 33-2, Leaving Traffic and 64, Roadside Servicing)

62-17

If driving on roadway and indications of motorcycle being on fire appear

62-171

Slows down motorcycle as quickly as possible

62-172

Does not try to put fire out while motorcycle is on roadway

62-173

Leaves roadway as quickly as possible and pulls well off roadway (see 33-2, Leaving Traffic)

62-174A

Deliberately stalls engine and dismounts quickly

62-175

Attempts to put out fire

62-176A

If fire appears to be out of control, gets at least 50 feet away from motorcycle in case of gasoline explosion

62-18

If tire blows out or air pressure diminishes suddenly

62-181

Promptly grasps the handlebars firmly

74
Responding to Motorcycle Emergencies

RESPONDING TO CRITICAL ON-ROAD EMERGENCIES

62-182A Balances motorcycle by shifting weight as required to maintain a straight course
62-183A Closes throttle
62-184A Uses rear brake only
62-185 Looks for safe place to drive entirely off the road to a level spot (see 33-2, Leaving Traffic)
62-19A If motorcycle is not operating smoothly
62-19A1 Promptly grasps the handlebars firmly
62-19A2 Balances motorcycle by shifting weight as required to maintain a straight course
62-19A4 Applies rear and then front brake
62-19A5 May disengage clutch if conditions permit
62-19A6 Looks for safe place to drive entirely off the road to a level spot (see 33-2, Leaving Traffic)
62-19B If drivechain is slipping or clanking
62-19B1 Disengage clutch as soon as safe to do so and follow procedure in 62-19A above

62-2 RESPONDING TO NON-CRITICAL ON-ROAD EMERGENCIES

62-21 If engine is overheating while on roadway
62-211 Pulls off roadway as soon as safely possible (see 33-2, Leaving Traffic)
62-212 Attempts to remedy overheating problem (see 64, Roadside Servicing)
62-23 If tire is going flat
62-231 Looks for safe place to pull off road (see 33-2, Leaving Traffic)
62-24 If motorcycle is running low on fuel
62-241 If fuel is low and service facilities are nearby
62-241A Turns fuel valve to reserve
62-2412 Avoids fast starts
62-2413A On motorcycles with divided tanks, sways motorcycle slightly back and forth, if safe to do so
62-2414 Coasts motorcycle if traffic and conditions permit
62-242 If motorcycle begins to hesitate due to lack of fuel
62-2421 Leaves roadway at first safe place before motorcycle stalls (see 33-2, Leaving Traffic)
Task 64: Roadside Servicing

64-1 LIMITS ROADSIDE SERVICING ACTIVITIES TO CORRECTIONS OF ON-ROAD EMERGENCY MALFUNCTIONS THAT MAY BE READILY AND SAFELY ACCOMPLISHED AT ROADSIDE WITH A MINIMUM OF BASIC TOOLS AVAILABLE.

64-2 WHEN MOTORCYCLE REQUIRES EMERGENCY ROAD SERVICING

64-22 If vehicle headlights have failed
64-221 Checks headlight fuses and replaces if necessary
64-222 If headlight failure cannot be corrected, waits for assistance and does not attempt to drive motorcycle

64-27 When motorcycle requires repairing tire

64-271 Makes sure that motorcycle is positioned well off roadway in a safe and level place

64-272 Secures motorcycle
64-2721A Raises on center-stand (if available)
64-2722A If no center-stand finds terrain or object such as stump which will serve to hold motorcycle while wheel is removed

64-273A Prepares to remove wheel
64-2731 Removes tools
64-273A2 Removes drive chain if rear wheel
64-273A3 Disconnects brake
64-273A4 Disconnects brake torque link
64-274A Removes axle and pulls out wheel
64-275A Removes tire from wheel
64-275A1 Removes valve stem nut
64-275A2 Loosens rimlocks if present
64-275A3 Using tierepoons, dismounts one tire bead from rim
64-275A4 Removes inner tube and patches puncture
64-276A Replaces inner tube
64-276A1 Remounts tire bead
64-276A2 Inflates inner tube
64-276A3 Replaces valve stem nut and tightens rimlocks
64-277A Reassembles wheel in motorcycle
64-277A1 Reconnects brake torque link
64-277A2 Reconnects drive chain if rear wheel
64-277A3 Reconnects and adjusts brake
64-277A4 Checks inflation pressure
64-278A Replaces tools in kit

64-3 SEeks EMERGENCY ASSISTANCE WHEN MOTORCYCLE IS DISABLED OFF ROADWAY AND CANNOT BE SERVICED

64-31A Does not push disabled motorcycle along shoulder

76
Task 71: Planning

71-1 PREPARES FOR EMERGENCIES

71-11A In general carries:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashlight</td>
<td>Fire extinguisher</td>
</tr>
<tr>
<td>First-aid kit</td>
<td>Spare fuses</td>
</tr>
<tr>
<td>Tool kit (screwdriver, wrench, at minimum)</td>
<td>for headlight and taillight</td>
</tr>
<tr>
<td>Towel rags or paper towels</td>
<td></td>
</tr>
<tr>
<td>Wiper blades or fire extinguisher</td>
<td></td>
</tr>
<tr>
<td>First-aid kit</td>
<td>Pencil and notebook</td>
</tr>
<tr>
<td>Spare fuses</td>
<td>Master link</td>
</tr>
<tr>
<td>Tool kit (screwdriver, wrench, at minimum)</td>
<td>for headlight and taillight</td>
</tr>
</tbody>
</table>

For winter driving adds: scraper for windshield

71-12A For long trips adds: quart of oil and tire inflation container

71-2 PREPARES FOR LONG TRIPS

71-21A Ensures motorcycle is in condition, with particular attention to parts more likely to fail under heavy use, i.e., tires, cables, chain, etc.

71-22 Identifies the destination and best routes thereto on up-to-date maps

71-221 Obtains maps from service stations, chambers of commerce, highway departments, automobile clubs or insurance companies

71-222 Familiarizes himself with the map legend to accurately interpret symbols and markings

71-223 Notes compass card and mileage scale on map for accurate orientation and perspective

71-224 Views large area map, like one of the entire country, for general planning and an overall view of distance to be traveled

71-2241 Notes major routes available, to include interstate, federal (U.S.), and state routes

71-2242 Observes highway types, e.g., controlled access, pavement, graded

71-2243 Marks alternate routes on map, aware that map lines only grossly representative of route

71-2244 Obtains total mileage and travel time to destination from chart and/or table on back of map

71-225 Studies regional (and state) maps which represent routes in greater detail

71-2251 Identifies routes that were marked on larger map

71-2252 Observes the types of roadways serving the routes

71-2253 Notes mileage between towns and junctions in black and total mileage between keypoints in red

71-2254 Looks for key features that can be easily identified enroute and used as checkpoints

71-2255 Checks back of map for small maps of selected metropolitan areas in region for routes through, around or into cities

71-2256 Selects safest, most convenient and economical route by considering:

71-2256-1 Length

71-2256-2 Type of highway, e.g., interstate, U.S., state, secondary

71-2256-3 Classification of roadway, e.g., controlled access, divided, number of lanes, paved

71-2256-4 Volume of traffic

71-2256-5 Current and seasonal weather conditions and their effects on roadway surfaces

71-2256-6 Toll roads, bridges and tunnels

71-2256-7 Locations of service stations, restaurants, and hotels/motels or camp sites

71-2256-8 Scenery and places of interest

71-2257 Marks selected route on map(s) to make it readily distinguishable from original map lines

71-226 If traveling alone, obtains or makes a strip map or route card (see also 23, Navigation)

71-227 Memorizes entire or first leg of route to avoid hazardous slowing down to study directional signs

71-23 Plans the time of travel

71-231 Notes estimated driving time between major locations on the map, if available
Planning

PREPARES FOR LONG TRIPS
71-232 Allows a time cushion for service and rest stops, possible bad weather, traffic congestion, detours, and other unexpected delays
71-233A Divides trip into manageable segments per day based on estimate of physical endurance and previous experience
71-234 Plans for starting and stopping early in the day to facilitate finding suitable lodging if not previously arranged
71-2342 Avoid night driving when navigation is more difficult
71-235 Saves time, and frustration, by avoiding week-end and holiday travel and known bottlenecks at peak hours of traffic, to include cities, bridges and tunnels
71-25 Gets plenty of rest before starting to avoid performance decrement from fatigue (see 22-1, Temporary Conditions)

PREPARES FOR URBAN DRIVING
71-31 If possible, obtains explicit directions to destination from reliable source
71-32 Obtains and studies detailed county or city street map
71-321 Checks back of map for indexes to local communities, streets, public and private buildings and sites
71-322 Locates appropriate square on the map and marks destination within it
71-323 Charts route from present location to destination
71-3231 Notes whether destination is on the north, south, east or west side of town
71-3232 Identifies thoroughfares that divide the city north-south and east-west
71-3233 Notes number of streets the destination is from dividing thoroughfare
71-3234 Notes between which cross street the address is located
71-3235 Identifies names of streets to be traveled and where turns will be made
71-3236 Notes street names preceding required turns to properly position motorcycle in advance
71-3237 Notes which streets are one way and in which direction
71-3238 Identifies prominent landmarks that may be used as directional guides
71-3239 Considers using through, parallel side streets that may be less congested and offer better travel time than main thoroughfares

PREPARES FOR DRIVING ON ICE- OR SNOW-COVERED ROADWAY (see 11, Pre-Operative Procedures and 46, Road Surface and Obstructions/Hazards)
71-41 Plans route to use major roadways and to avoid steep hills as much as possible
71-42 Allows for extra time required to traverse route under adverse conditions
71-43 Fills fuel tank
### Task 73: Use of Alcohol and Drugs

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>73-1</td>
<td>ALCOHOL</td>
</tr>
<tr>
<td>73-11A</td>
<td>Does not drink while driving</td>
</tr>
<tr>
<td>73-11A1</td>
<td>Realizes alcohol affects balance, coordination and reflexes</td>
</tr>
<tr>
<td>73-12</td>
<td>If drinking before driving</td>
</tr>
<tr>
<td>73-121</td>
<td>Eats before and while drinking</td>
</tr>
<tr>
<td>73-122</td>
<td>Dilutes drinks with water, sodas, gingerale, etc., to thin the proof</td>
</tr>
<tr>
<td>73-1221</td>
<td>Avoids switching from one form of alcohol to another</td>
</tr>
<tr>
<td>73-123</td>
<td>Paces drinks to no more than one per hour to allow for disposal of alcohol without accumulation in the blood stream</td>
</tr>
<tr>
<td>73-124</td>
<td>If several drinks are consumed in quick succession, waits one hour for each drink consumed before driving</td>
</tr>
<tr>
<td>73-125</td>
<td>Drinks coffee to stay awake</td>
</tr>
<tr>
<td>73-126*</td>
<td>If plans to drink much, arranges to have someone else drive or arranges for other mode of transportation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>73-2</td>
<td>DRUGS</td>
</tr>
<tr>
<td>73-21</td>
<td>Obtains information from physician and/or literature regarding probable effects of drug and its impact on driving performance</td>
</tr>
<tr>
<td>73-22</td>
<td>Avoids driving after consumption of the following drugs:</td>
</tr>
<tr>
<td>73-221</td>
<td>Analgesics, sedatives, hypnotics, stimulants, and amphetamines in large amounts</td>
</tr>
<tr>
<td>73-222</td>
<td>Antihistamines, sulfonamides, muscle relaxants, and antibiotics if they have previously caused drowsiness</td>
</tr>
<tr>
<td>73-223</td>
<td>Tranquilizers during initial stages before reactions have been determined</td>
</tr>
<tr>
<td>73-224</td>
<td>Hallucinogens, marijuana</td>
</tr>
<tr>
<td>73-23</td>
<td>When state laws so demand, does not drive after taking drug</td>
</tr>
<tr>
<td>73-24</td>
<td>Does not drive after consuming both alcohol and drug</td>
</tr>
</tbody>
</table>

* New Statement
Task 74: Maintaining and Accommodating Physical and Emotional Conditions

74-1 IN GENERAL, PERIODICALLY HAS PHYSICIAN EVALUATE FITNESS TO DRIVE, ESPECIALLY IF SUFFERING A PERMANENT DISABILITY

74-2 VISION
74-21 Has eyes examined periodically as vision may deteriorate without driver's awareness
74-22 Consults eye specialist before driving if vision is defective
74-23 Learns nature and extent of defect(s) and has corrective measures taken as soon as possible
74-24 Wears corrective glasses, ensuring appropriate pair is used if more than one type are prescribed
74-241 Wears glasses that maximize visual acuity for distance
74-242 Avoids wearing "reading" glasses to drive
74-243A Wears glasses that do not interfere with goggles or face mask
74-25 If defects are not correctable
74-251 Learns limitations or types of error that are likely
74-252 Learns to compensate by listening more closely and turning the head more often (see 22-21, Visual)
74-253 Avoids driving at night

74-3 HEARING
74-31 Has ears examined periodically, as hearing loss is usually so gradual that it goes unnoticed
74-32 Has defect corrected or compensated for with hearing aid
74-33 Checks that hearing aid is operating properly before driving
74-34 Learns to compensate by increasing use of peripheral vision, more frequent eye movements, and additional use of rearview mirror(s)
74-35A Determine if balance may be affected

74-4 ILLNESS
74-41 Determines impact on driving performance of medication to relieve cold symptoms
74-42 Avoids driving with minor temporary discomfort, like nausea and cramps, if it will distract attention from driving
74-43 Does not drive when ill with acute diseases because performance will be generally poor
74-44 If suffering a chronic disease, drives only with physician's permission and when faithfully following prescriptive measures

74-5 AVOIDS DRIVING WHEN IN A HIGHLY EMOTIONAL STATE, SUCH AS THOSE LISTED BELOW, BECAUSE DRIVER WILL BE PREOCCUPIED AND DISTRACTED FROM THE DRIVING TASK

<table>
<thead>
<tr>
<th>Anger</th>
<th>Irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elation</td>
<td>Sorrow</td>
</tr>
<tr>
<td>Excitement</td>
<td>Worry</td>
</tr>
<tr>
<td>Frustration</td>
<td></td>
</tr>
</tbody>
</table>
Task 81: Routine Care and Servicing

81-1 PERFORMS ROUTINE INSPECTION OF MOTORCYCLE CONDITION BEFORE DRIVING (see 11, Pre-Operative Procedures)
81-11 Corrects deficiencies when detected or notes deficiencies for immediate correction at service station or gararge

81-2 PERFORMS OR HAS SERVICE ATTENDANT PERFORM THE FOLLOWING AT LEAST ONCE PER WEEK

81-21 Checks motorcycle lights
81-211 Examines the following for broken, cracked, or dirty lenses and inoperative bulbs
81-2111 Headlights
81-2112 Parking lights
81-2113 Brake lights
81-2114 Directional turn signal lights
81-2115 Tail lights
81-212 Wipes lenses clean
81-213 Has defective lenses or bulbs replaced as soon as possible

81-22 Checks motorcycle tires and wheels
81-221 Checks inflation pressure
81-2211 Compares with motorcycle manufacturers recommendation
81-2212 Follows manufacturers recommended inflation pressures
81-222 Performs visual examinations of tires including sidewalls and treads for the following conditions
81-2221 Material embedded in tread
81-2221-1 Removes foreign material
81-2222 Cuts, abrasions, blisters, and evidence of excessive or abnormally uneven tread wear
81-2222-1 Replaces tires if unsafe
81-2222-2 Notes nature of uneven tread wear as possible need for check of wheel balance
81-223A Visually examines wheel rims for trueness and damage
81-223A1 If not true, has wheel straightened

81-25 Checks battery and electrical system
81-251 Checks battery power
81-2511 Checks battery electrolyte level
81-2512 Uses hydrometer to check specific gravity of battery solution
81-2513 Recharges or replaces battery as required
81-252 Checks external condition of battery, battery housing and cables
81-2521 Checks external battery case for damage, cracks or corrosion
81-2521-1 Replaces battery if damaged, warped or cracked
81-2521-2 If battery and cables are corroded
81-2521-21 Removes corrosion with baking soda and water solution
81-2521-22 Coats battery terminal posts and cables with petroleum jelly to prevent further corrosion
81-2522 Checks battery housing supports and cable connections for tightness and condition
81-2522-1 Tightens loose hold down clamps and cable connections
81-2522-2 Replaces damaged or worn battery cables
81-2522-3 Repairs or replaces damaged battery carrier
81-253 Visually checks electrical circuits which are visible for loose connections and damaged wiring
Routine Care and Servicing

**PERFORMS OR HAS SERVICE ATTENDANT PERFORM THE FOLLOWING AT LEAST ONCE PER WEEK**

- **81-2531** Tightens loose connections
- **81-2532** Replaces damaged, worn or frayed electrical wiring
- **81-26** Checks steering and suspension system
- **81-26A** Checks steering head for excessive play or drag
- **81-26A1** Has adjustment made if steering head bearings are not snug but free turning
- **81-262** Looks for noticeable indications of suspension system problems
- **81-262A** Looks for oil leaks and checks oil in shocks
- **81-262A** Checks carrying height of springs
- **81-262A1** Adjusts rear shocks if necessary
- **81-26A** Checks for bent fork tubes
- **81-263A** Has tubes straightened if necessary
- **81-27** Checks braking system
- **81-271** Checks static operation of brake pedal
- **81-2711A** If pedal passes point where stoplight comes on without applying brake
- **81-2711A-1** Adjusts brake linkage
- **81-271A** Checks operation of front brake lever
- **81-271A1** If lever pulls back against handgrip without applying brake
- **81-272A1** Adjusts cable to tighten up on brake
- **81-2722A-2** If insufficient cable adjustment remaining, adjusts brake arm at wheel
- **81-28** Checks oil level
- **81-281** Checks oil level when engine is hot (4-stroke engine)
- **81-282** Uses dipstick to measure oil level (if available)
- **81-2821** Removes dipstick and wipes clean with cloth
- **81-2822** Re-inserts dipstick and withdraws dipstick for reading
- **81-2822-1** Adds oil if oil level on dipstick is at or below the "Add Oil" line
- **81-2822-2** Replaces dipstick
- **81-283** When adding oil to crankcase
- **81-2831** Uses same grade and brand of oil as currently in crankcase
- **81-2832** Removes oil filler cap
- **81-2833** Pours additional oil into oil filler
- **81-2834** Re-checks oil level with dipstick
- **81-2835** Adds additional amount if necessary
- **81-2836** Does not overfill oil
- **81-2837** Replaces oil filler cap
- **81-284** Visually checks for oil leaks
- **81-2841** If leaks are noted has motorcycle checked for source of leak and repaired
- **81-29A** Checks drive chain and sprockets
- **81-29A1** Visually checks for sufficient lubrication on chain
- **81-29A11** Removes, cleans, and oils chain, or
- **81-29A12** Applies oil with spout, spray or brush oiler, or
- **81-29A13** Adjusts automatic chain oiler (if present)
- **81-29A2** Manually checks for excessive looseness in chain
- **81-29A21** Loosens rear axle and tightens chain adjusters
- **81-29A22** Checks alignment of sprockets and adjusts if needed
- **81-29A22-1** Retightens axle
- **81-29A22-2** Readjusts rear brake linkage
Routine Care and Servicing

81-3 CLEANS AND INSPECTS MOTORCYCLE BODY EXTERIOR
- Washes motorcycle frequently to remove accumulated dirt, grime, road film and road surface chemicals from painted surfaces
- Inspects motorcycle parts attachments for looseness, damage, point deterioration, rust and corrosion
- Tightens loose parts as required
- Repairs damaged sections
- Touches up paint scratches or has motorcycle painted if necessary
- Cleans off rust and corrosion and touches up with sealant and paint to prevent further corrosion
- Inspects muffler and baffles for excessive rust
- Replaces excessively rusted muffler and/or caffle sections

81-4 PERFORMS OR HAS STATION ATTENDANT PERFORM THE FOLLOWING EACH TIME THE MOTORCYCLE IS FUELED
- Fills fuel tank with the motorcycle manufacturers recommended grade of gasoline (and oil if required), being careful not to overfill
- Checks oil level (if four stroke engine see 81-28, Checks Oil Level)
- Checks water in battery
- Removes battery caps
- Visually checks solution level in each cell
- Adds distilled water to battery cells, if needed until solution level is just above battery plates
- Replaces battery caps securely
- Cleans dirt and film off windshield, and motorcycle lights
Task 82: Periodic Inspection and Servicing

82-1 CHECKS MOTORCYCLE SUBSYSTEMS

82-11 Has motorcycle checked by a qualified mechanic on a specified time schedule

82-12 Follows the recommendations in the owner's manual for periodic checks

82-13 of motorcycle subsystems

82-13 Has the following subsystems checked as a minimum requirement:

82-131 Headlights
82-1311 Alignment
82-1312 Brightness
82-132 Steering and suspension system
82-1321 Steering column assembly
82-1324 Front end alignment
82-1325 Wheel balance
82-1326 Wheel bearings
82-1327 Springs
82-1328 Shock absorbers
82-1329 Tires
82-133 Braking system
82-1331 Brake shoes and lining, if so equipped
82-1332 Brake drum, if so equipped
82-1335 Brake pedal linkage
82-1335A Hand brake linkage
82-134 Electrical and ignition system
82-1341 Battery
82-1342 Alternator/generator
82-1343 Starter, if so equipped
82-1344 Distributor points and condenser
82-1345 Ignition timing
82-1346 Coil
82-1347 Spark plugs
82-135 Fuel system
82-1351 Choke (if so equipped)
82-1352 Throttle valve
82-1353 Fuel pump (if so equipped)
82-1354 Fuel pump filter (if so equipped)
82-1355 Carburetor
82-1356 Air cleaner and filter
82-136 Engine lubrication and cooling system
82-1361 Oil filter, if so equipped
82-1362 Oil pump, if so equipped
82-137 Drive train
82-1371 Clutch assembly and linkage (manual transmission)
82-1372 Transmission (automatic or manual)
82-1372A Chain and sprockets
82-138 Exhaust and smog control system
82-1381 Exhaust manifold
82-1382 Exhaust pipe(s)
82-1383 Muffler(s)
82-1384 Carries (if so equipped)
Periodic Inspection and Servicing

CHECKS MOTORCYCLE SUBSYSTEMS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-139</td>
<td>Body</td>
</tr>
<tr>
<td>82-1391</td>
<td>Frame</td>
</tr>
<tr>
<td>82-1393</td>
<td>Windshield</td>
</tr>
</tbody>
</table>

82-14 Where applicable, has motorcycle inspected in compliance with state or local safety inspection requirements (see 91-3, Safety Inspection Requirements)

82-15 Follows owner's manual regarding subsystem checks recommended for preparation for changes in season and trip preparation

82-16 When subsystem deficiencies are noted, initiates appropriate servicing or initiates repair

SERVICES MOTORCYCLE SUBSYSTEMS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>82-21</td>
<td>Has motorcycle regularly serviced at intervals recommended by the manufacturer</td>
</tr>
<tr>
<td>82-211</td>
<td>Changes oil and replaces oil filter (if any)</td>
</tr>
<tr>
<td>82-212</td>
<td>Lubricates motorcycle joints and bearings</td>
</tr>
<tr>
<td>82-213A</td>
<td>Services drive train components including chain</td>
</tr>
<tr>
<td>82-214</td>
<td>Cleans or replaces carburetor air filter and adjusts carburetor</td>
</tr>
<tr>
<td>82-216</td>
<td>Has engine tune up performed</td>
</tr>
<tr>
<td>82-218</td>
<td>Replaces tires and/or rebalances wheels</td>
</tr>
</tbody>
</table>

82-22 Follows manufacturer's recommendations for special service requirements needed for

82-221 Preparation of motorcycle for changes in season

82-222 Motorcycle services recommended for trip preparation

82-23 Has motorcycle serviced whenever need for servicing is noted

82-231 On basis of observations while driving

82-232 On basis of inspection results

82-24 When subsystem deficiencies are noted during servicing, initiates inspection of noted deficiencies and/or initiates repair (see 82-1, Checks Subsystem)
Task 91: Driver and Motorcycle Certification

91-1 **OBTAINS A DRIVER’S LICENSE**

- Makes certain that he has a valid driver’s license in his possession at all times when operating a motorcycle
- Adheres to any restriction on license
- Obtains duplicate if license is lost or stolen
- Notifies proper state agency when there has been a change in name or address
- Has license renewed prior to expiration date
- Does not use license belonging to others or allow others to use his

91-2 **REGISTERS THE MOTORCYCLE**

- Obtains certificate of ownership, registration certificate, and license plates from the state motor vehicle department when buying motorcycle or upon moving to a new state
- Mounts license plate at appropriate location on motorcycle
- Carries registration certificate with him or protects same in motorcycle at all times
- Has registration certificate renewed prior to expiration date
- Maintains certificate of ownership in safe place at home, not in motorcycle

91-3 **COMPLIES WITH SAFETY INSPECTION REQUIREMENTS, WHERE APPLICABLE**

- Has motorcycle inspected at an authorized inspection facility at required intervals
- Has all deficiencies corrected as soon as possible
- Displays inspection sticker as directed
Task 92: Post-Accident Responsibilities

92-1 STOPS MOTORCYCLE CLOSE TO SCENE
92-11 Positions motorcycle so as to minimize hazard for other traffic
92-12 Shuts off ignition and light switches to prevent electrical sparks
92-13 Avoids smoking if gasoline has spilled onto roadway

92-2 SENDS FOR POLICE
92-21 If anyone has been injured
92-22 If property damage is estimated to be in excess of local minimum reporting level
92-23 In conformity with local law

92-3 OFFERS TO ASSIST THE INJURED
92-31 With permission, removes injured person(s) from danger area
92-311 If from roadway, marks spot where and how he was lying
92-32 Avoids moving injured when safe to wait for medical assistance
92-33 Covers injured with blanket or coat, particularly when burned
92-34 Applies a pressure bandage to control excessive bleeding
92-35 Limits assistance to first aid, ensuring it does not extend to treatment
92-351 Refrains from giving injured any liquid to drink or any substance to relieve pain
92-352 Makes no effort to reset a broken bone

92-4 WARNS OTHER TRAFFIC
92-41 Stations someone to warn approaching traffic
92-42 If nighttime, sets flares or other warning lights 200-300 yards back on roadway

92-5 GATHERS AND EXCHANGES INFORMATION FOR ACCIDENT REPORT
92-51 Checks all apparent damage and makes notation
92-52 With witnesses
92-521 Points out damage to witnesses
92-522 Obtains name and address of witness
92-523 Obtains signed statement from witnesses by what they saw
92-524 If bystanders deny having seen accident but driver believes they did, asks them to sign statement that they did not see accident
92-53 With other driver:
92-531 Obtains name and address of other driver and his insurance company, numbers on his license and registration, and make and model of car
92-532 Asks to see driver's license
92-533 Gives own name and address to other driver or person attending damaged vehicle or property and to police officer
92-534 Upon request shows registration and driver license or permit
92-535 Avoids commenting on accident
92-536 Neither offers nor accepts immediate payment at accident scene

87
When no one is available to receive or exchange information (as when striking unattended vehicle or other property) and damage appears to be less than $100:

- Attempts to find owner of damaged property
- If owner of damaged property cannot be located or contacted
- Leaves note with name, address, and telephone number
- Attaches note securely and conspicuously in or on vehicle or property

Records all circumstances surrounding accident:

- Records street or intersection, hour, date, weather and road conditions
- Notes whether headlights were turned on
- Records roadway width and distance from edges to where accident occurred
- Notes traffic control devices
- Notes direction of travel, exactly where vehicle(s) struck and where stopped, and length of skid marks
- Estimates speed of travel for all vehicles involved
- Specifies who was driving other vehicle, whether other driver was wearing glasses, where passengers were located, whether passengers were visibly injured and how they acted, i.e., walking erect or limping

REPORTS ACCIDENT

- Reports accident if not notified at time of occurrence
- Submits required written reports within specified time limit
- Notifies insurance company as soon as possible