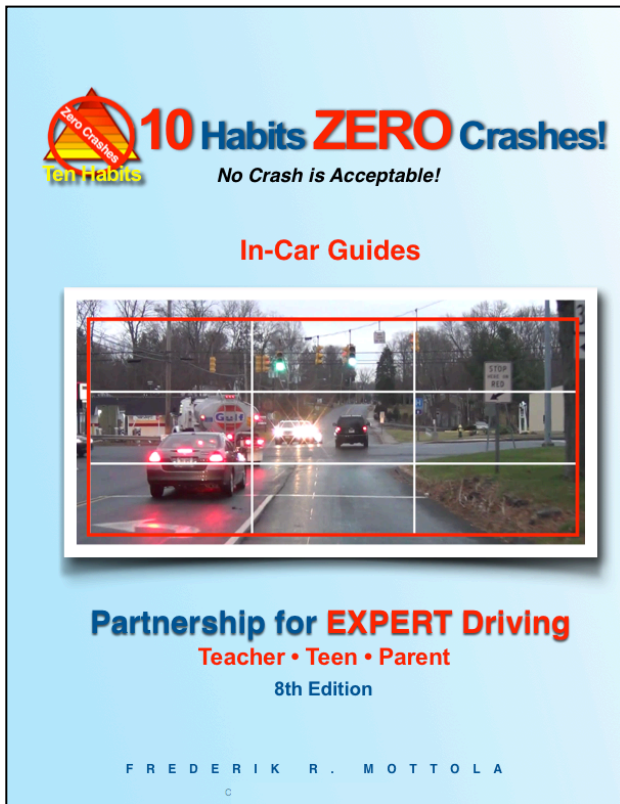


Lesson Two

Partnership for Expert Driving

Preparation for In-Car Success



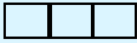
by

Professor Frederik R. Mottola
National Institute for Driver Behavior • NIDB.org

Objectives for Lesson Two

At the completion of Lesson Two's activities you should be able to successfully explain, demonstrate, or perform the following actions.

Lesson Two's Habits of Zone Control to Cultivate!



Review Habit 1: Establish Driver-Vehicle Readiness

1. Demonstrate how to use shift selector and parking brake before exiting car.



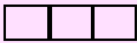
Review Habit 2: See Path Before Putting Car in Motion

2. Demonstrate how to turn head before turning steering for a right turn.



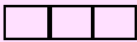
Review Habit 3: Keep the Car in Balance

3. Explain where the transition peg is located for making a left and right turn.



Guide 5 - Reference Discoveries (Repeat each at least three times)

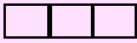
4. Place the car's right tires 3-6 away from a line in the parking lot. Explain the reference point that you used.



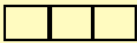
5. Place the front bumper even with a line. Explain the reference point used.



6. Use a line and place the car in Lane Position 2, then in LP3.



7. Use a parking line as a curb line. Demonstrate the side position for making a right turn, then a left turn. Explain the reference point used.



Guide 6A - Entering Traffic (Repeat each at least three times)

8. Explain the difference between a "gap" and a "hole" in a traffic flow.

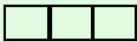


9. With the car parked with a view of a traffic flow, identify where there are gaps and holes within the traffic flow.



Guide 6B - Precision Turns (Note: When the teen is able to follow your directions in a safe and consistent manner, go to a lightly traveled residential area to make turns.)

10. Prepare to make a right turn. Demonstrate: 1. signal light and mirror usage, 2. proper side position, 3. smooth legal stop, and 4. the forward position.



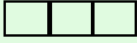
11. While stopped at the right turn forward position Demonstrate: 1. where the target will be, 2. how to search for a gap or hole, 3. how to turn head.



12. Explain to me where the transition peg is for a right and left turn.

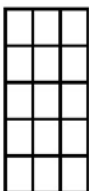


13. Prepare to turn. Locate gap or hole, turn head to target.

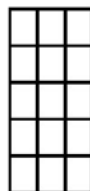


14. Repeat steps 10-13 at least ten times; then apply them for left turns.

Key Behavioral Patterns



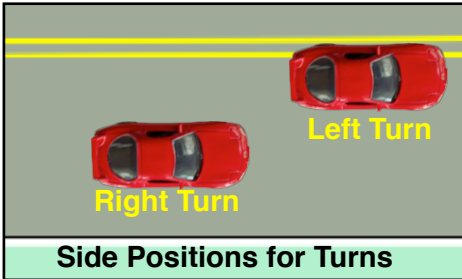
- Use of Reference Points
- Side Position RP for Turns
- Forward Position RP for Turns
- Use of Signal Lights
- Legal and Smooth Stops



- Target Usage for Turns
- Search Intersection, L, F, R
- Look into turn before steering
- Steering and Recovery
- Turns Transition Pegs

Preparation for In-Car Lesson Two

Guide 5. Reference Point Discoveries



Guide 6A. Side Position

Side position for making a right turn: The car is 3 feet from the curb. The curb appears to be aligned with the middle of the right half of the car. For left turns, when the car's tires are 3-6 inches from the line it will appear to be one foot over the line. The photo above shows how the left side appears to be one foot over the curbline.



Driver's View



Co-Driver's View

The driver and the co-driver has their own set of reference point tapes to mark the the tracking path of the left and right tires. Placement of the tape makes it easier for fringe vision to detect accurate lane placement.



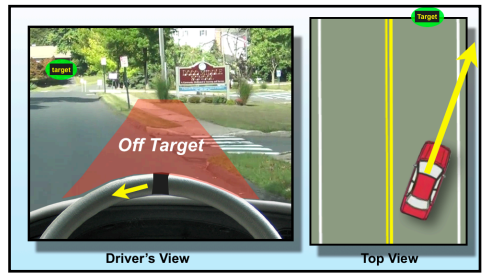
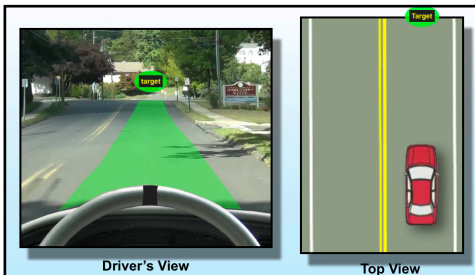
The **Target Area** is the center of your travel lane where the target is located, and the space to the left and right of the target. Once you learn to locate targets you can search to the Target Area without selecting a specific target.



Reference Point: Mirror to Curbline

Outside View

When the front of the car is even with the curb, the passenger side mirror will appear to be aligned with the curb, as the photo to the left shows. This is the **Forward Position** for making a right turn. And, this is the **Safety Stop Position**, which allows a deep search to the target area.



When the car is “On Target” the center of the steering wheel will be aligned with the center of the lane. When the car is “Off-Target” the driver must instantly do three things: 1. Turn head to the target. 2. Stay off the pedals (no brake, no acceleration). 3. Steer toward the target.



Head Turned to Target Area before making a turn

Car is at the Transition Peg

Transition Pegs keeps your head pointing toward the target, or target area. When making a left turn, as the driver’s side corner post becomes aligned with the target loosen grip on the wheel and accelerate to straighten tires. For right turns the transition peg is when the rear view mirror appears in the center of your lane. The co-driver also learns how to see and use Tpegs.

6B: Precision Turns

Before Turning

1. Use of Signals
2. Mirror - Blind Spot Check
3. Side Position Reference Point
4. Speed Control - Brake
5. Smooth Legal Stop
6. Forward Position Reference Pt
7. Select Target
8. Search L, F, R, for Gap or Hole
9. Get Commitment⁺

During Turn

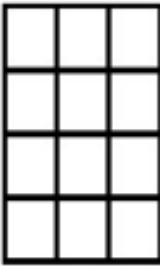
1. Avoid Hesitation
2. Look Into Turns, Target
3. Speed and Steering Control
4. Use of Transition Peg
5. Accurate Tracking Path

After Turn

1. Precision Turn Results
2. Re-evaluate Rear Zone
3. Look For LOS-POTs

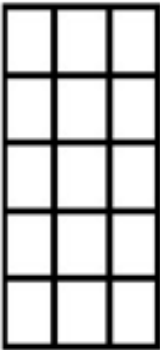
6A: Entering & Crossing Traffic

Select Gap From Curbside



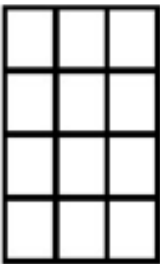
1. Evaluate Path to Enter
2. Mirror - Blind Spot Check
3. Locate Gap or Hole to Enter
4. Use of Signals

While Entering Traffic Flow



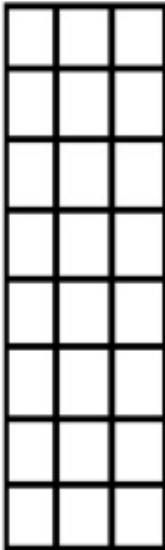
1. Avoid Hesitation
2. Look to Target Area
3. Side Position Reference Point
4. Steering Technique
5. Speed Control

After Entering Traffic Flow



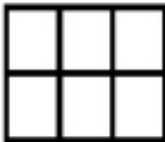
1. Cancel Signal
2. Accurate Tracking Path
3. Re-evaluate Rear Zone
4. Look for New LOS-POTs

5: Reference Point Discoveries



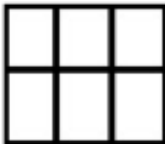
1. Line-Of-Vision Blind Spot
2. Right Side Limitation
3. Left Side Limitation
4. Front Even With Curb line
5. Rear Even With Line
6. Lane Position #2 (LP2)
7. Lane Position #3 (LP3)
8. Lane Position #1 (LP1)

Right Turn References



1. Side Position
2. Forward Position

Left Turn References



1. Side Position
2. Forward Position

8: Before Exiting the Vehicle

1. How Is The Location?

2-3. Parked Okay/Tires Straight?

4. Keep Foot On Brake

5-6. Parking Brake/Shift To Park

7. Foot Off Brake

8-9. Accessories Off/Belts Off

10-11. Windows Closed/Key Out

12. Left-Rear Zone Check

13-14. Alarm Set/Open Door

15. Doors Locked