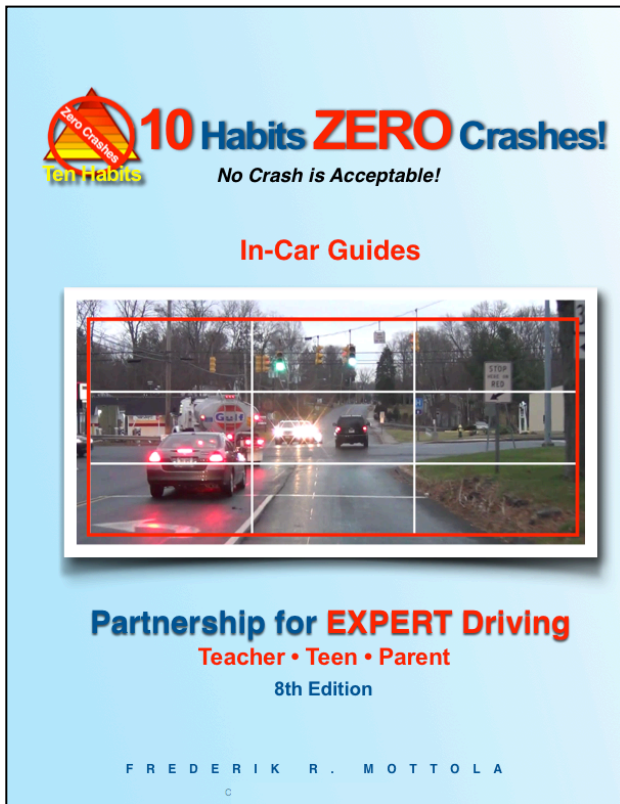


Lesson Four

Partnership for Expert Driving

Preparation for In-Car Success



by

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

Objectives for Lesson Four

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

Lesson 4 Tier Two: Building the House of Habits



Review Habit 2: See Path Before Putting Car in Motion

1. Demonstrate turning your head before turning the steering wheel.



Review Habit 3: Keep the Car in Balance

2. Demonstrate effective hand-over-hand and hand-to-hand steering.



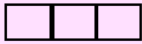
Review Habit 4: Use Reference Points

3. Demonstrate the forward position for a right turn.



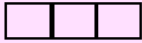
Review Habit 5: Use Matrix to Find LOS-POT Blockages

4. Demonstrate how to re-evaluate LOS-POTs as they enter B or C window.



Guide 12 - Search to Target Area (Repeat each at least three times)

5. Use Matrix A window. Evaluate a "Go" or a "Slow" condition.



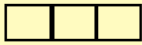
6. Identify LOS-POT at 15-Second Range.



7. Identify 4-Second danger zone.

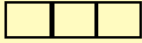


8. Demonstrate how to measure space in seconds.



Guide 13 - Recognition of LOS-POTs (Repeat each at least three times)

9. Identify LOS-POT at 15-Second Range.



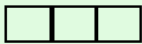
10. FIND LOS-POT Critical Second in Matrix A window (Target Area).



11. SOLVE to have control of Critical Second before it enters B or C window.

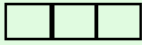


12. CONTROL Critical Second when in B or C window.



Guide 14 - Introduction to Zone Control (Repeat each at least three times)

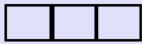
13. When there is a closed front zone, check your rear zone.



14. Select best speed choice for go or slow condition.



15. When you have a closed C window, check for an open B window.



Guide 15 - Angle Parking (Repeat each at least three times)

16. In a parking lot. Practice Forward Angle Parking (See Coach's Guide 15)
Demonstrate proper side position, explain reference point used.

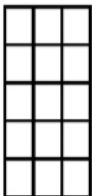


17. Demonstrate Forward Position for Angle Parking.

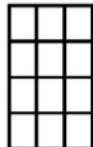


18. Select Target, creep and turn onto target.

Key Behavioral Patterns



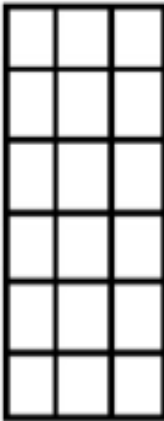
- **FIND** LOS-POT in Target Area
- **See Path** as OPEN or CLOSED
- **SOLVE** LOS-POT at 15 seconds
- **CONTROL** 4 sec. danger zone
- **Judge distance** in seconds



- **Apply ABCs Zone Control**
- **Apply Speed Control Options**
- **Apply Lane Position Options**
- **Use Angle Parking Behaviors**

12: Searching Target Area to T.Area

1. Search To Target Area



- Use Matrix's Future Window
- Is it a Go or Slow Condition?
- LOS-POTs In Target Area
- Target Area Open or Closed
- Identify Targeting Path
- Respond To Zone Changes

2. Search 15-Second Range



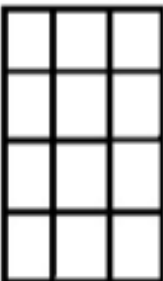
- Identify LOS-POTs
- Respond to LOS-POTs

3. Know 4-Second Danger Zone



- Use Central Vision
- Use Fringe Vision

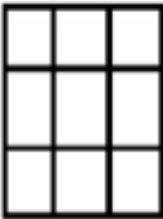
4. Judge Distance In Seconds



- Take A Guess
- Count Off By Seconds
- Accuracy Of Guess
- Different Speeds

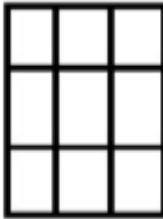
13: Recognition Of LOS-POT

1. Identify LOS-POT Front Zone



- See to Target Area
- See 15-Second Range
- See Within Danger Zone

2. Identify LOS-POT Left-front



- FIND in Target Area
- SOLVE 15-Second Range
- CONTROL 4-sec Danger Zone

3. Identify Closed Zones:



- Closed Front Zone LOS-POT
- Closed Side Zone LOS-POT

14. Buffer and Zone Control



1. Identify LOS-POT Change

2. Respond To Front Zone Change



• Check Rear Zone

• Apply Speed Control Option



• Keep Same Speed



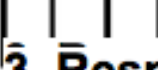
• Decelerate



• Off-Gas, Cover Brake



• Off-Gas, Apply Brake



• Increase Speed

3. Respond to A/B/C Zone Change



• Check Opposite Zones



• Apply Speed Control Option



• Apply Lane Position



4. Improve Position From ZC



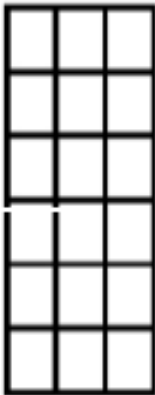
5. Attempt To Keep Zones Open

15: Forward & Angle Parking

1. Before Parking

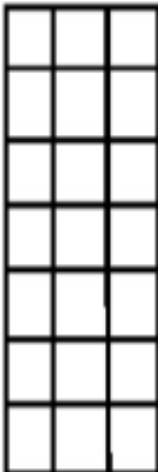


- Check Rear Zone
- Check Parking Space



2. Side Position
3. Forward Position
4. Creep - Turn Wheel Fast
5. Line Up With Target
6. Straighten Car and Tires
7. Stop At Front Reference

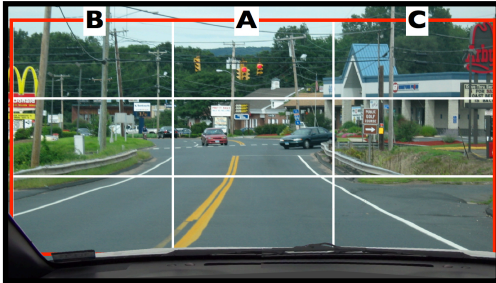
8. To "Unpark"



- Back Slowly
- Check Traffic
- Check All Corners
- Clear Fender - Turn Wheel
- Straighten Car
- Tires Straight
- Shift To Drive

Preparation for In-Car Lesson Four

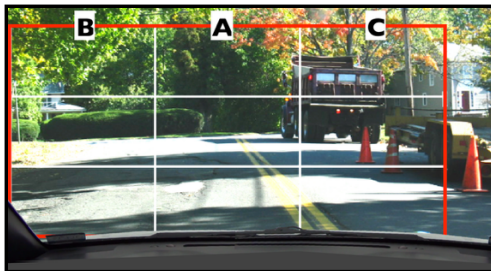
Guide 12. Searching to Target Area



Three Searching Ranges

1. Search the A Zone Target Area to look for open or closed zones.
2. Evaluate the condition of the B and C Zones when you are 10-15 seconds away.
3. Get best speed control, lane position, and communication before entering the 4-second Danger Zone.

Guide 13. Recognition of LOS-POTs

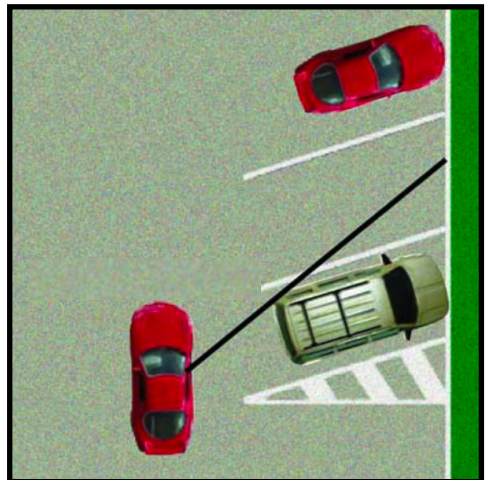


Because we “see meaningful information” with the mind, and not with the eyes, it is important that we tell the eyes what to look for.

Tell the eyes to look for LOS-POT Blockages and critical seconds.

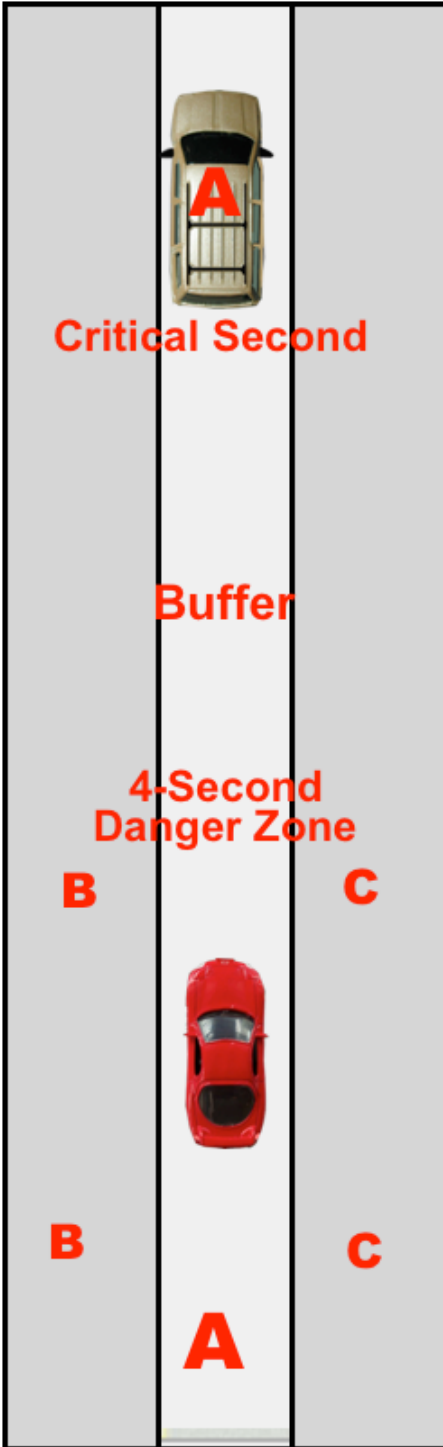
Guide 15. Forward & Angle Parking

1. **Before Parking** search for cars and pedestrians. Check Rear Zone. Locate space.
2. **Side Position** Get at least 6-8 feet from parked cars.
3. **Forward Position** is to seeing a target in the center of the space (see photo).
4. **Creep and Turn Wheel Fast**
5. **Line up with Target** If target is close, like a parking meter, it will shift toward the center of your car as you get closer to it.
6. **Straighten Tires**
7. **Stop at Forward Reference.**



This photo shows a driver's view at the Forward Position for entering a perpendicular parking space.





Critical Second is when other vehicles and users of the roadway are within one second of your vehicle

Buffer is when you have four or more seconds of empty space to the front and sides of your vehicle, and two or more seconds of space to the rear.

4-Second Danger Zone is when you are four seconds away from LOS-POT Blockages, and critical seconds.