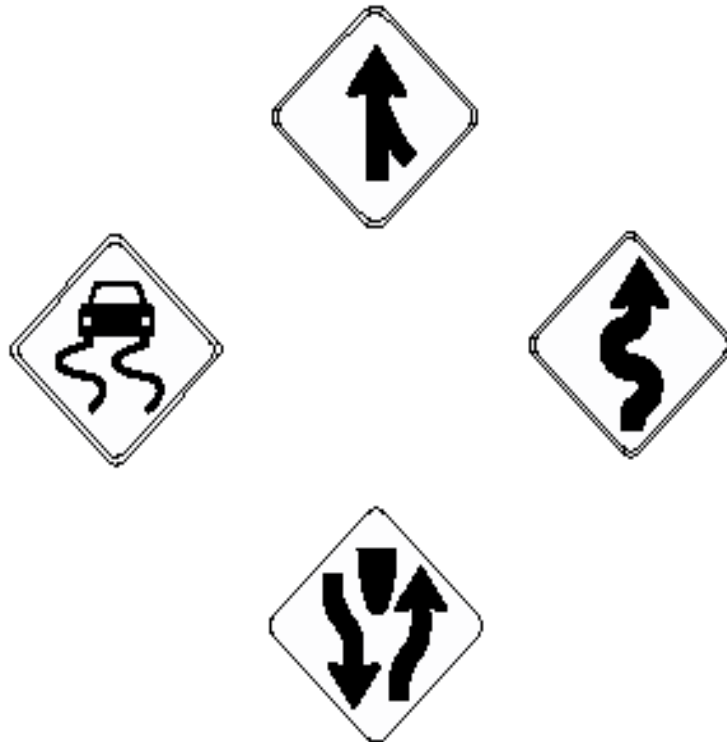


BTW Lesson 4

Basic Control/Traffic Mix



Introduction to Lesson 4

In this lesson, pick a residential area for your student to practice basic maneuvers, including right-hand and left-hand turns, lane changes, and following time. As your student progresses, you should move from light to moderate traffic areas. Special attention should be given to following time and space management in all traffic environments. Students should use the concept of targeting to identify potential problems that could affect the control of their line-of-sight, path-of-travel (LOS/POT).

Your student will begin the task of practicing parallel parking in Lesson 4. Choose a low-volume parking lot or residential area for this maneuver. Repeat the lesson as many times as it takes for your student to develop smoothness and consistency when doing this parking maneuver.

BTW Lesson 4 Checklist

Parallel Parking (Entering)	Right/Left Turns
Visual Target Area 6 (rear) _____	Visual Target POT _____
Appropriate Blind Spot Check _____	Check Area 6 (rear) _____
Signal and Check Area 5 _____	Check Areas 4 or 5
Reference Points _____	(left rear or right rear) _____
Stopped Position, Bumpers _____	Lane Position 2 or 3 _____
Area 6 (rear) Check _____	Speed Control _____
Reverse, Back Slowly _____	Visual Scan _____
Steering Control:	Recheck Traffic _____
Right, Straight, Left _____	Steering Control Using Front
Speed Control _____	Limitation Reference Points _____
Center Vehicle _____	Target New POT and Unwind As
	Needed _____
Parallel Parking (Leaving)	Move to Nearest Lane and Move to
Visually Target and Back Up _____	Lane Position 1 _____
Wheels Turned Left _____	
Shift to Drive _____	Lane Changing
Mirror, Area 4 (left rear)	Traffic Check and Targets POT _____
Check _____	Signal and Check Areas 4 or 5 _____
Signal _____	(left rear or right rear)
Check Areas 4 and 5 _____	Target POT _____
(left rear and right rear)	Steering Control to New Lane _____
Arm Signal _____	Proper Lane Position _____
Check Areas 3 and 4 _____	Speed Control _____
(right front and left rear)	
Move Into Traffic _____	Following Time
Target POT _____	Select Spot _____
Move to Lane Position 1 _____	Count From First Vehicle to
	Own Vehicle _____
Scanning Skills	Adjust Speed _____
Target 20-30 Seconds _____	
12-15 Second Minimum _____	
Keep Eyes Moving _____	
Identify Controls, Users, _____	
Conditions _____	
Check Mirrors _____	

BTW Lesson 4

Title: Basic Control/Traffic Mix

Prerequisites:

1. Complete BTW Lesson 3

2. Classroom:

Module 3 includes managing intersections, left and right turns, parallel parking, lane changing in a low to moderate traffic flow environment.

3. Simulation:

“Search and Identify and Anticipate Hazards”,
“IPDE Strategy”, “Decide and Act, Backing,
Turnabouts and Parking.”

Skills to be Practiced:

- Parallel parking.
- Reference points.
- POT and LOS.
- Managing space and visibility.
- Changing lanes.
- Following distance.
- Left and right turns.

BTW Lesson 4 Helpful Hints

1. Choose a driving area that has a low volume of traffic.
2. Left turns will be easier at first because there are less sight restrictions to the left side.
3. Review the checklist to evaluate performance on specific tasks.
4. Continue to practice turns, giving less instruction as the skills enhance.
5. Checking the vehicle's "space" area is an important step to driving defensively. Continual traffic checks are needed when maneuvering into your new travel paths.
6. Encourage your student to tell you the procedures involved in these maneuvers. This will help you to determine if she/he is mentally engaged in the driving process.
7. Work on getting into the correct lane positions when entering and when exiting a turn.
8. Provide opportunity for the use of reference points during the parking process. This will facilitate the learning process if used correctly.

Parallel Parking—Entering

Objective

When directed and with minimal assistance, the student will approach and enter parallel parking spaces at least three times.

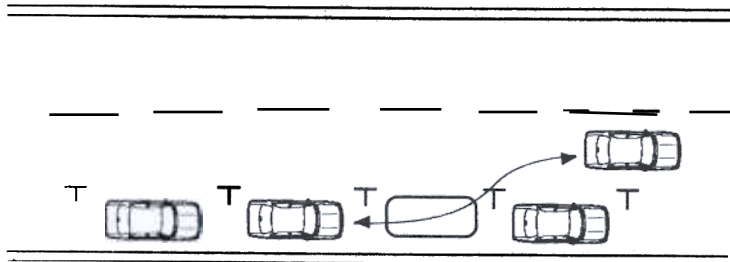
Driving Environment

- Light and complex city traffic.
- Initial parking can be practiced in a parking lot or a residential low-volume area.

Common Errors

- Not checking rear area (6).
- Late signaling on approach.
- Not using reference points for judging distance and car placement.
- Speed too fast.
- Not using reference points and/or side mirror.
- Not shifting to “drive” after backing up.
- Not shifting to “reverse” after stopping.
- Not targeting.

Parallel Parking—Leaving



1. SHIFT TO REVERSE AND TAKE THE BACKING POSITION.
2. VISUALLY TARGET TO THE REAR, BACK SLOWLY, AND STOP USING REFERENCE POINTS (turn wheels to the left before stopping).
3. SHIFT TO DRIVE GEAR.
4. CHECK MIRRORS.
5. SIGNAL AND CHECK RIGHT REAR AREA (5).
6. USE ARM SIGNAL (if signals are blocked).
7. CHECK RIGHT FRONT AND LEFT REAR AREAS (3 and 4).
8. VISUALLY TARGET AND STEER FULL LEFT.
9. STRAIGHTEN WHEELS WHEN THE RIGHT FRONT MIRROR IS EVEN WITH THE BACK BUMPER OF THE FRONT CAR.
10. PROCEED INTO LANE POSITION 1.

Parallel Parking—Leaving

Objective

When directed and while following proper procedures, the student will leave parallel parking space at least three times with little or no cues.

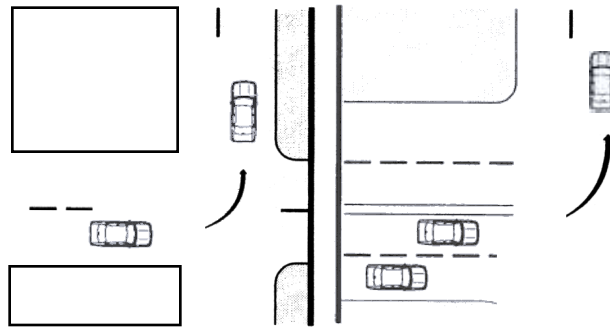
Driving Environment

- Light to complex city traffic.
- Initial parking can be practiced in a parking lot or a residential low-volume area.

Common Errors

- Not making area checks.
- Not steering fast enough.
- Failed to shift to “drive” after backing up.
- No arm signal if required.
- Not checking right front and left rear areas (3 and 4).
- Trying to exit without first backing up.

Left Turns



1. VISUALLY TARGET POT, SIGNAL INTENTION TO TURN.
2. CHECK REAR AREA (6), CHECK LEFT REAR AREA (4).
3. REDUCE SPEED, MOVE TO LANE POSITION 2.
4. SCAN INTERSECTION AND SPEED CONTROL.
5. RECHECK TRAFFIC, GLANCE RIGHT.
6. STEERING CONTROL USING FRONT LIMITATION REFERENCE POINTS.
7. TARGET NEW POT AND UNWIND AS NEEDED.
8. MOVE TO LANE POSITION 1.

Left Turns

Objective

As directed and following proper procedures, the student will perform three left turns with minimal assistance.

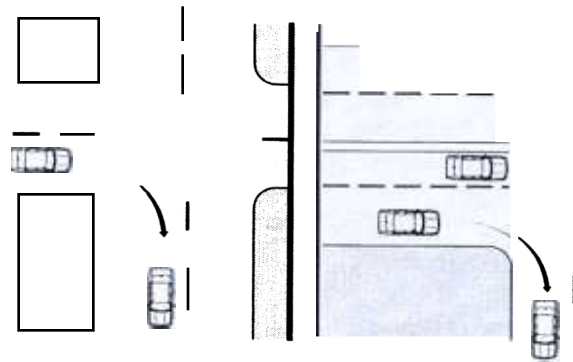
Driving Environment

- **Low-volume residential area.**
- **Controlled and uncontrolled intersections.**
- **Wide streets—some with pavement markings.**

Common Errors

- **Speed control.**
- **Improper use of hand-over-hand steering.**
- **Late steering recovery.**
- **Late signal and/or tracking errors.**
- **Confusion regarding right-of-way.**
- **Forgetting to make visual checks.**
- **Improper lane selection.**
- **Turning too early or too late.**
- **Not using turning reference points.**
- **Not targeting.**

Right Turns



1. VISUALLY TARGET POT, SIGNAL INTENTION TO TURN.
2. CHECK REAR AREA (6), CHECK RIGHT REAR AREA (5).
3. REDUCE SPEED, MOVE TO LANE POSITION 3.
4. SCAN INTERSECTION AND SPEED CONTROL.
5. RECHECK TRAFFIC, GLANCE LEFT AND INTO INTENDED POT.
6. STEERING CONTROL USING FRONT LIMITATION REFERENCE POINTS.
7. TARGET NEW POT AND UNWIND AS NEEDED.
8. MOVE TO LANE POSITION 1.

Right Turns

Objective

As directed and following proper procedures, the student will perform three right turns with minimal teacher assistance.

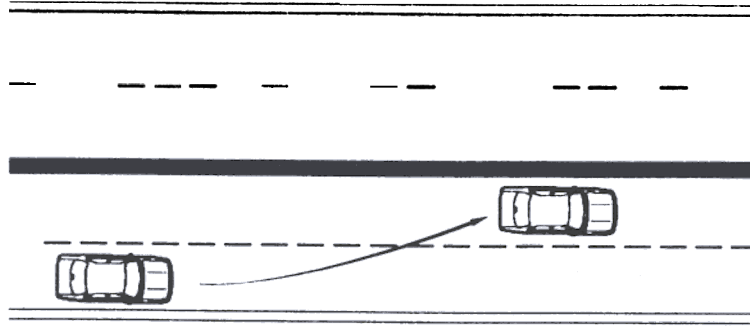
Driving Environment

- Low-volume residential area.
- Controlled and uncontrolled intersections.
- Wide streets—some with pavement markings.

Common Errors

- Speed control.
- Improper use of hand-over-hand steering.
- Late steering recovery.
- Late signal and/or tracking errors.
- Not moving to the right side of lane.
- Confusion regarding right-of-way.
- Forgetting to make visual checks.
- Improper lane selection.
- Improper targeting.

Lane Changing



1. VISUALLY CHECK TRAFFIC AND TARGET POT.
2. SIGNAL AND CHECK LEFT REAR OR RIGHT REAR AREAS
(4 or 5).
3. TARGET INTENDED POT.
4. STEERING CONTROL TO NEW LANE.
5. PROPER LANE POSITION.
6. PROPER SPEED CONTROL.

Lane Changing

Objective

When directed and following the correct procedures, the student will demonstrate proper space, gap, speed, POT, and communication selection while performing two left and two right lane change maneuvers without cues.

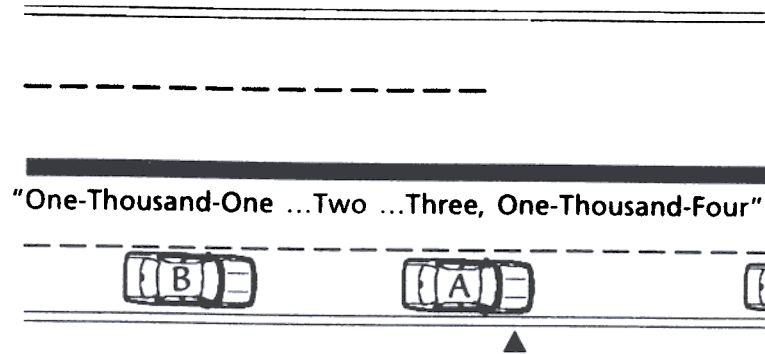
Driving Environment

- Light to heavy city traffic.
- Multiple lane roads.
- Moderate speed limits.
- Lane markings and traffic-controlled intersections.

Common Errors

- Not targeting POT.
- Making lane changes in intersections.
- Forgetting to check left rear or right rear areas (4 or 5).
- Turning the wheel while making blind spot checks.
- Too much steering input.
- No adequate gap or space while changing lanes.
- Procedures out of order.
- Not signaling/cancelling signal.
- Unnecessary slowing.
- Not checking mirrors.

Following Time



1. SELECT FIXED SPOT ON OR NEAR ROADWAY ▲.
2. WHEN FRONT VEHICLE (A) PASSES SPOT, ▲
COUNT ONE-THOUSAND-ONE, ONE-THOUSAND-TWO, ETC.
3. CAR B SHOULD NOT REACH THE SAME SPOT ▲
BEFORE 4 SECONDS.
4. IF TOO CLOSE, GRADUALLY REDUCE SPEED.
5. WITH BAD ROAD CONDITIONS, INCREASE TIME TO
5-6 SECONDS.

Following Time

Objective

While driving and with minimal assistance, the student will demonstrate a minimum 4 second following time at 30 mph or less throughout BTW Lessons 3-9.

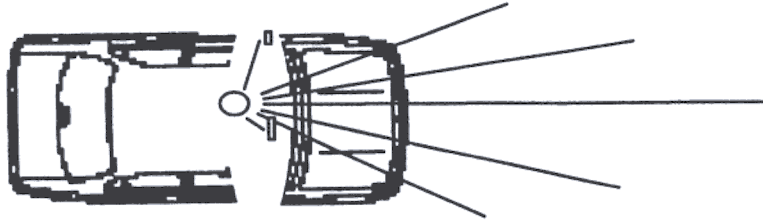
Driving Environment

- Light to complex city traffic.
- Multiple lane roadways.
- Rural two lane highways/and limited access highways.
- Areas with traffic control devices.

Common Errors

- Not targeting far enough ahead.
- Counting too fast.
- Not adjusting speed or position to maintain proper following time.

Scanning Skills



1. VISUALLY TARGET 20-30 SECONDS ON OPEN HIGHWAY.
2. SCAN 12-15 SECONDS AHEAD FOR HAZARDS.
3. VISUALLY SEARCH FROM SIDE TO SIDE, LOOKING FOR HAZARDS THAT COULD AFFECT SPEED OR POSITION.
4. DON'T FIXATE ON OBJECT FOR MORE THAN 2 SECONDS.
5. LOOK FOR HIGHWAY USERS, TRAFFIC CONTROLS, AND ROADWAY CONDITIONS.
6. CHECK THE REAR ZONE (AREA 6) BEFORE SLOWING, STOPPING, TURNING, AND WHEN ENTERING INTERSECTIONS.
7. SCAN EVERY INTERSECTION; LOOK 45½ LEFT, FORWARD, AND 45½ RIGHT (when stopped, look 90½).
8. SCAN INSTRUMENTS AND GAUGES.

Scanning Skills

Objective

While driving and with minimal assistance, the student will demonstrate proper visual scanning skills at each on-street lesson.

Driving Environment

- Residential, low-volume areas to complex city and freeway traffic.
- Rural, two-lane traffic.

Common Errors

- Not looking at least one block or 12 seconds ahead.
- Not visually targeting through turns and other basic maneuvers.
- Not checking mirrors when speed or position is to change or has changed.
- Not making occasional checks of the instrument panel.
- Not identifying traffic controls, highway users, and roadway conditions 12-15 seconds ahead.
- Not scanning intersections.
- Fixed stare/tunnel vision.
- Drifting while scanning off target.

