

# BTW Lesson 2

Basic Control  
Maneuvering in Limited Space



## Introduction to Lesson 2

In Lesson 2, your student will be practicing right-hand and left-hand turns, moving into and away from the curb and turnabouts, and using referencing points to judge vehicle placement on the roadway. Your student should be able to tell you what the signs, signals, and pavement markings mean.

Your student should practice pulling into and away from the curb using reference points for vehicle placement. Turnabouts should be practiced in a residential area with plenty of driveways and alleys.

## BTW Lesson 2 Checklist

### Left Turns

Traffic Check \_\_\_\_\_

Signal \_\_\_\_\_

Check Area 6 \_\_\_\_\_

Lane Position 2 \_\_\_\_\_

Reduce Speed \_\_\_\_\_

Scan/Target \_\_\_\_\_

Recheck Traffic \_\_\_\_\_

Reference Points \_\_\_\_\_

(before, during, after turn)

Steering Control \_\_\_\_\_

(while turning and unwinding)

Target Ahead \_\_\_\_\_

Lane Position 1 \_\_\_\_\_

### Lateral Move From Curb

Traffic Check Areas 4 and 6

(left rear and rear)

Signal, Check Area 4 \_\_\_\_\_

(left rear)

Accelerate \_\_\_\_\_

Target Lane Position \_\_\_\_\_

Steer \_\_\_\_\_

### Right Turns

Traffic Check \_\_\_\_\_

Signal \_\_\_\_\_

Check Area 6 \_\_\_\_\_

Lane Position 3 \_\_\_\_\_

Reduce Speed \_\_\_\_\_

Scan/Target \_\_\_\_\_

Use Reference Points \_\_\_\_\_

(for best turn position)

Speed Control \_\_\_\_\_

Steering Control \_\_\_\_\_

(while turning and unwinding)

Target Ahead \_\_\_\_\_

(to nearest available lane)

Lane Position 1 \_\_\_\_\_

### Lateral Move to Curb

Check Intended Path \_\_\_\_\_

Check Areas 6 and 5 \_\_\_\_\_

(rear and right rear)

Signal, Check Area 5 \_\_\_\_\_

(right rear)

Reduce Speed \_\_\_\_\_

Steer to Target \_\_\_\_\_

Speed Adjustments  
Maintain Constant Speed \_\_\_\_  
Adjust to Conditions  
    Accelerator Use \_\_\_\_\_  
    Brake Use \_\_\_\_\_  
Speedometer Checks \_\_\_\_  
Legal Limits \_\_\_\_\_

Lane Control  
Proper Hand Position \_\_\_\_  
Visual Target 20-30 Sec. \_\_\_\_  
Lead Time Scan 12-15 Sec.  
Gradual Steering \_\_\_\_\_  
Use of Lane Positions \_\_\_\_  
Adjusts as Needed \_\_\_\_\_

Turnabout Left  
Check Area 6, Signal \_\_\_\_  
(rear)  
Signal and Turn Left Into Alley  
Move Past Sidewalk and  
Stop With Wheels  
Straight \_\_\_\_\_  
Check Traffic: Areas 4-5-6 \_\_\_\_  
(left rear, right rear, and rear)  
Shift to R \_\_\_\_\_  
Use Visual Reference \_\_\_\_  
Steer to Right and Back Into

Lane Position 3 Straighten  
Wheels, Target Until Stopped  
Shift to D, Signal Left \_\_\_\_\_  
Move to Lane Position 1 \_\_\_\_  
Alley Turnabout Right  
Check Area 6 (rear), Signal \_

Stop Past Alley \_\_\_\_\_  
Use Visual Reference \_\_\_\_  
Check Traffic: Areas 4-5-6 (left  
rear, right rear and rear)  
Shift to R \_\_\_\_\_  
Back Into Alley, Check Area 2  
(left front) from Lane Position 3  
Straighten Wheels, Stop \_\_\_\_  
Shift to D, Signal Left \_\_\_\_\_  
Check Traffic \_\_\_\_\_  
Turn Left Into Nearest Lane \_\_\_\_  
Move to Lane Position 1 \_\_\_\_

Y Turnabout  
Move to Right Shoulder and  
Stop \_\_\_\_\_  
Recheck Traffic, Signal Left \_  
Visually Target Left Curb \_\_\_\_  
Move Slowly, Steer Quickly  
Toward Front Curb \_\_\_\_\_  
Stop With Wheels Straight \_\_\_\_  
Recheck Traffic, Visually Target  
Rear \_\_\_\_\_  
Curb While Backing to Rear  
Curb \_\_\_\_\_  
Steer Left, Stop and Recheck  
Traffic \_\_\_\_\_  
Clear the Area, Move Forward



## BTW Lesson 2

### **Title: Basic Control and Maneuvering in Limited Space**

Prerequisites:

1. **Complete BTW Lesson 1.**

2. Classroom:

Module 2 includes signs, signals, markings, turns, intersections, approach and leaving the curb, backing into and out of alleys, (WEA) Watch, Evaluate, and Act space management.

3. Simulation:

Any of the following programs: “In’s and Out’s of Turns”, “Managing Intersection Maneuvers”, “IPDE Strategy.”

Skills to be Practiced:

- Lane positioning (see appendix).
- Reference points/zone control.
- Speed and lane adjustment.
- Cover brake.
- Left turns.
- Right turns.
- Lateral move from curb.
- Lateral move to the curb.
- Alley turnabout—left side.
- Alley turnabout—right side.
- Y turnabout.

## BTW Lesson 2 Helpful Hints

1. Check your student's understanding of the specific tasks that will be practiced. Go over the rules of the road in the driver's guide.
2. Have your student tell you about the importance of performing each of these tasks.
3. Review the checklist to evaluate performance on specific tasks.
4. When backing or moving to the curb or to a designated area, have your student describe which reference points she/he is using to accomplish the maneuver.
5. Have your student describe lane positions and how to determine which lane position she/he is in.
6. Starting and securing all the operations and procedures of the vehicle are important steps in the driving process. Watch that all the steps are done correctly and in proper sequence.
7. 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.
8. Check your student's eyes to see that they are looking in the correct direction and at the important features of the driving scene.

# NOTES

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

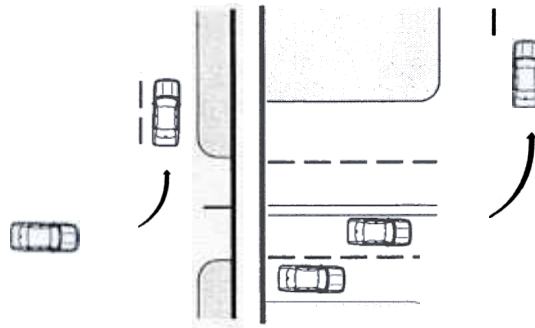
---

---

---

---

## Left Turns



1. SIGNAL INTENTION TO TURN.
2. MOVE TO LANE POSITION 2.
3. CHECK MIRROR AND REDUCE SPEED.
4. SCAN INTERSECTION.
5. RECHECK TRAFFIC, GLANCE RIGHT AND AT INTENDED POINT OF TRAVEL.
6. BEGIN TURNING NEAR STREET CENTER.
7. UNWIND AND ACCELERATE, TARGET PATH-OF-TRAVEL (POT).
8. MOVE TO LANE POSITION 1.



# Left Turns

## Objective

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

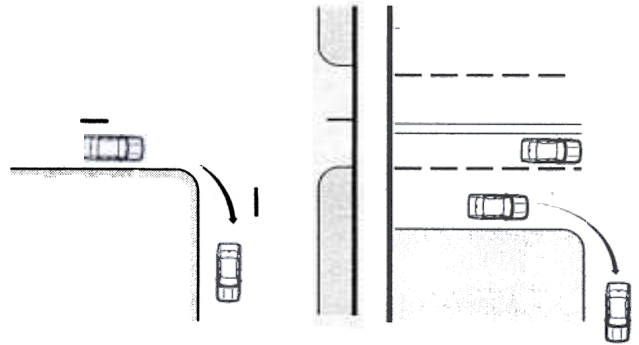
## Driving Environment

- **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. SIGNAL INTENTION TO TURN.
2. MOVE TO LANE POSITION 3 (NEAREST CURB).
3. CHECK MIRRORS AND REDUCE SPEED.
4. SCAN INTERSECTION.
5. RECHECK TRAFFIC, GLANCE LEFT, AND TARGET NEW INTENDED PATH OF TRAVEL.
6. TURN AS FRONT IS EVEN WITH BEND OF CURB.
7. UNWIND AND ACCELERATE, LOOKING WELL AHEAD.
8. MOVE INTO NEAREST LANE.

# Right Turns

## Objective

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

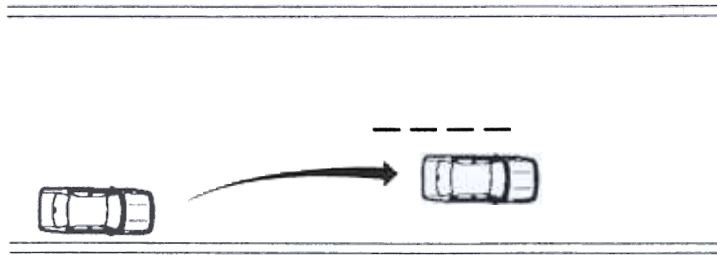
## Driving Environment

- 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.

## Lateral Maneuver—Away From Curb



1. CHECK TRAFFIC IN AREAS LEFT REAR AND REAR (4 and 6) AND PATH-OF-TRAVEL (POT).
2. SIGNAL, CHECK LEFT REAR (AREA 4).
3. ACCELERATE, TARGETING TO LANE POSITION 1.
4. STEER TO TRAVEL PATH.
5. ACCELERATE TO SPEED OF TRAFFIC.
6. CANCEL SIGNAL.

# **Lateral Maneuver—Away From Curb**

## **Objective**

When directed and without assistance, the student will follow proper procedures and move the car at least three times from a right side stopped position into the traffic lane.

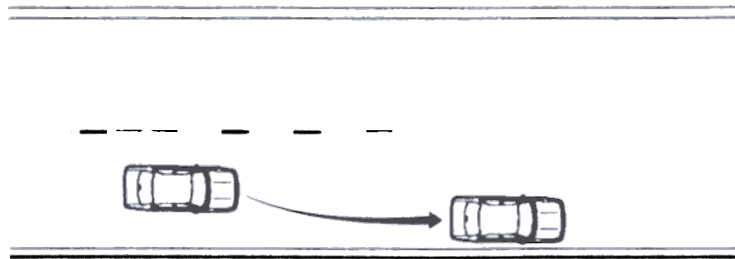
## **Driving Environment**

- Off-street area or low-volume residential area with minimal traffic.
- As the student gains experience, perform the maneuver in moderate and heavy traffic.

## **Common Errors**

- Not following procedures.
- Blind spot checks in wrong area.
- Failure to check blind area.
- Poor speed control.
- Failure to signal or cancel signal.

## Lateral Maneuver—Move to Curb



1. CHECK INTENDED PATH AND TRAFFIC IN AREAS RIGHT REAR AND REAR (5 and 6).
2. SIGNAL, CHECK RIGHT REAR (area 5).
3. APPLY BRAKE PRESSURE; TARGET CENTER OF INTENDED PATH (lane position 3).
4. REDUCE SPEED WHILE MOVING TO CURB, USE 3-6 INCH REFERENCE.
5. STOP AND SECURE CAR.

## **Lateral Maneuver—Move to Curb**

### **Objective**

When directed and without assistance, the student will follow all procedures and move the car at least three times from lane position 1 to lane position 3 using 3-6 inch reference points.

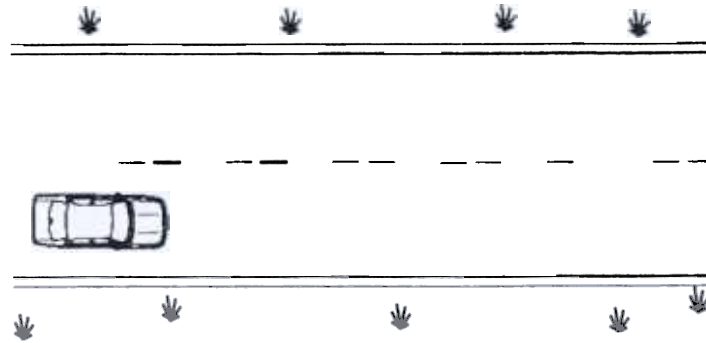
### **Driving Environment**

- This task can be performed in an off-street area or low-volume area with minimal traffic.
- As the student progresses, this can be performed in moderate and heavy city traffic.

### **Common Errors**

- Procedures not in correct order.
- Not using 3-6 inch reference points when visually targeting.
- Too fast or slow.
- Forgetting to check right rear area (5).
- Improper targeting (aiming at curblines without central vision).
- Reducing speed too early and not signaling.
- Steering while checking blind spot.
- Leaning/turning head too far to check blind spot.
- Not using mirrors.

## Speed Adjustments



1. MAINTAIN CONSTANT SPEED WITH OPEN SPACE AREAS.
2. MAKE ACCELERATOR AND BRAKE CHANGES FOR CLOSED OR CHANGING SPACE AREAS.
3. ADJUST SPEED TO FLOW OF TRAFFIC AND CONDITIONS.
4. MAKE OCCASIONAL SPEEDOMETER CHECKS.



# Speed Adjustments

## Objective

While driving in light volume to complex traffic, the student will maintain a constant speed and make adjustments according to changing traffic conditions.

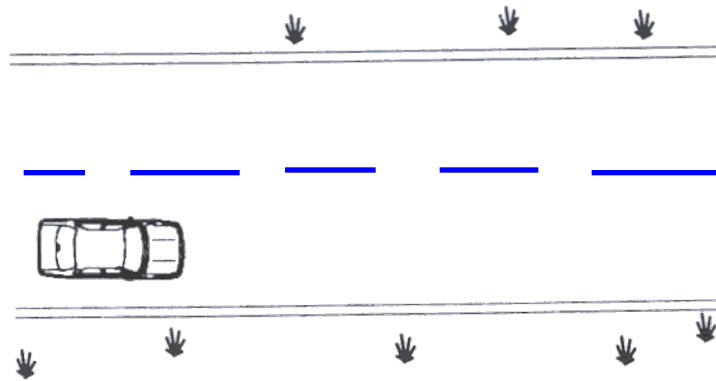
## Driving Environment

- Low-volume residential areas.
- Various road conditions of moderate to heavy traffic.

## Common Errors

- Inconsistent speed.
- Speed too fast.
- Speed too slow.
- Improper foot position on accelerator.
- Improper lane position and/or control.
- Staring at speedometer versus quick glances.
- Failing to adjust speed for hills, curves, etc.

## Lane Control



1. POSITION BOTH HANDS AT 3/9 OR 8/4.\*
2. VISUALLY TARGET PATH OF TRAVEL 20-30 SECONDS AHEAD.
3. KEEP EYES MOVING SCANNING AND SEARCHING 12-15 SECONDS AHEAD.
4. MAKE GRADUAL STEERING CORRECTIONS.
5. PLACE VEHICLE IN PROPER LANE POSITION BY USING CENTRAL VISION FOR TARGETING AND FRINGE VISION FOR REFERENCE POINTS.

\* 3/9 and 8/4 refer to the numbers on the face of a clock. Your hand position should be in the same place as the respective clock numbers.

# Lane Control

## Objective

The student will maintain the car in proper lane positions (1-2-3) while driving straight and turning on various types of roads and intersections.

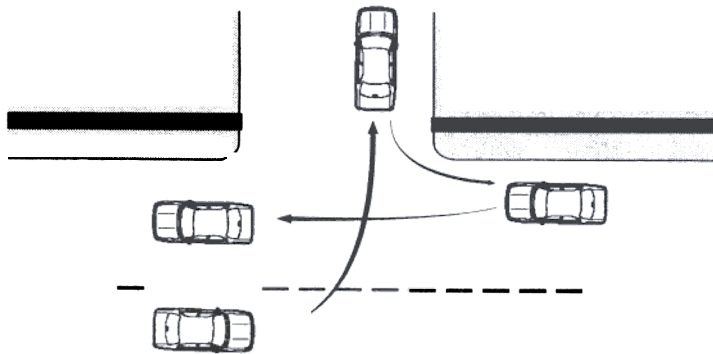
## Driving Environment

- Low-volume residential areas to complex traffic and multiple lane roads.

## Common Errors

- Improper hand position on the wheel.
- Not targeting 20-30 seconds ahead and searching 12-15 seconds for traffic conditions.
- Abrupt or repeated steering corrections.
- Over- or understeering actions.
- Fixed stare.
- Drifting.
- Not using eyes properly.
- Inability to maintain a given lane position (1-2-3).

## Alley Turnabout—Left Side



1. CHECK REAR AREA (6), SIGNAL LEFT, AND TURN INTO DRIVEWAY.
2. MOVE PAST SIDEWALK AND STOP WITH WHEELS STRAIGHT.
3. CHECK LEFT REAR, RIGHT REAR, AND REAR AREAS (4-5-6) AND SHIFT TO REVERSE, STOPPING AT LEGAL STOPPING LOCATION AND CHECK FOR CLEAR TRAFFIC.
4. VISUALLY TARGET NEAREST LANE.
5. STEER RIGHT AND MOVE INTO LANE (POSITION 3).
6. CHECK LEFT FRONT AREA (2) WHILE STEERING.
7. STRAIGHTEN WHEELS, TARGET UNTIL STOPPED.

# Alley Turnabout—Left Side

## Objective

When directed and with minimal assistance, the student will follow proper procedures and perform left side alley turnabout at least twice.

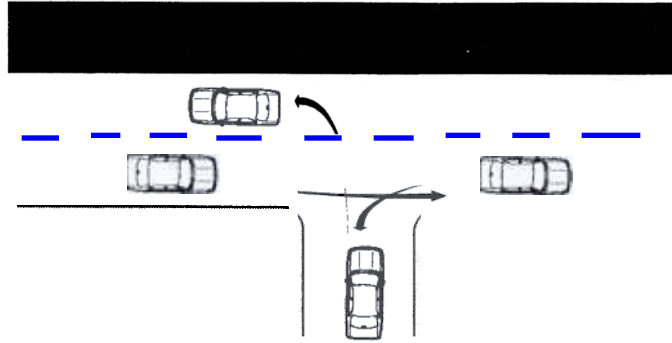
## Driving Environment

- Low-volume residential areas.
- Areas with and without sidewalks.
- Wide streets.
- Adequate number of alleys available.
- Adequate and limited line of sight.

## Common Errors

- Improper lane position in the alley.
- Improper steering while backing.
- Fails to stop before entering the street.
- Improper targeting.
- Backs into the wrong lane.
- Speed too fast.
- Fails to check left front area (2) when turning.
- Fails to keep looking in the rear area (6) until the car is stopped.
- Too wide or too short on turn.
- Fails to stop and yield to approaching traffic/pedestrians.

## Alley Turnabout—Right Side



1. CHECK THE REAR AREA (6), SIGNAL, MAKE A LATERAL MANEUVER TO THE RIGHT, AND STOP JUST PAST ALLEY.
2. RECHECK THE REAR AREA (6) FOR TRAFFIC, SHIFT TO REVERSE.
3. SCAN AND USE VISUAL REFERENCES FOR TARGETING AND BACKING.
4. RECHECK LEFT FRONT AREA (2) WHILE STEERING SHARPLY RIGHT.
5. STRAIGHTEN WHEELS AND STOP WHEN CLEAR OF THE STREET.
6. SHIFT TO DRIVE AND SIGNAL LEFT.
7. MAKE LEGAL STOP AND CHECK FOR OPENING IN TRAFFIC.
8. TURN LEFT AND MOVE INTO LANE POSITION 1.

# Alley Turnabout—Right Side

## Objective

When directed and with minimal assistance, the student will execute a right side alley turnabout at least twice.

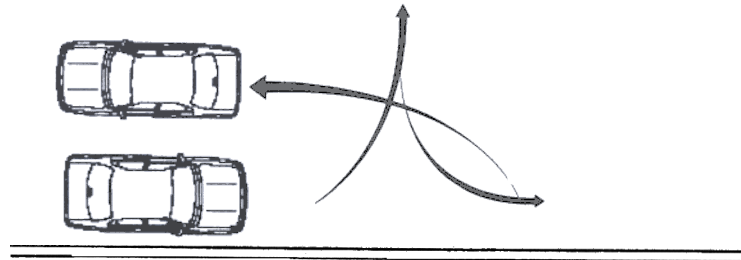
## Driving Environment

- Low-volume residential area.
- Wide streets with or without sidewalks.
- Adequate number of alleys.
- Various types of line-of-sight limits.

## Common Errors

- Not making blind area checks while approaching the curb.
- Fails to check rear area (6) for traffic.
- Not using reference points for turning.
- Improper steering techniques.
- Speed too fast.
- Not checking left front area (2).
- Not centered in the alley.
- Fails to keep looking back until stopped.
- Forgets to shift to drive before leaving.
- Forgets to stop at legal stopping location.
- Not targeting correctly.

## Y Turnabout



1. PERFORM A LATERAL MANEUVER TO THE RIGHT SHOULDER AND STOP.
2. RECHECK TRAFFIC, SIGNAL LEFT.
3. VISUALLY TARGET LEFT CURB.
4. MOVE SLOWLY, STEERING SHARPLY TOWARD THE LEFT.
5. JUST PRIOR TO REACHING THE CURB TURN WHEELS SHARPLY TO THE RIGHT AND STOP (use front alignment reference).
6. SHIFT TO REVERSE AND CHECK TRAFFIC.
7. VISUALLY TARGET TO REAR, BACK TOWARD OPPOSITE SIDE OF STREET, STEERING SHARPLY TO THE RIGHT.
8. JUST BEFORE REACHING OPPOSITE CURB, STEER SHARPLY LEFT AND STOP.
9. CLEAR AREA, SHIFT TO DRIVE, MOVE FORWARD INTO LANE POSITION 1.



# Y Turnabout

## Objective

When directed and with minimal assistance, the student will demonstrate at least twice the proper procedures for a Y turnabout.

## Driving Environment

- Low-volume residential area.
- Narrow streets or dead end roads.
- Adequate visibility available.

## Common Errors

- Speed control.
- Not checking traffic.
- Not using front reference points.
- Dry steering.
- Improper steering control.
- Improper wheel position.
- Not signaling.
- Not checking traffic.
- Not targeting to rear when backing.
- Confusing gas/brake, steering, or shifting coordination.

