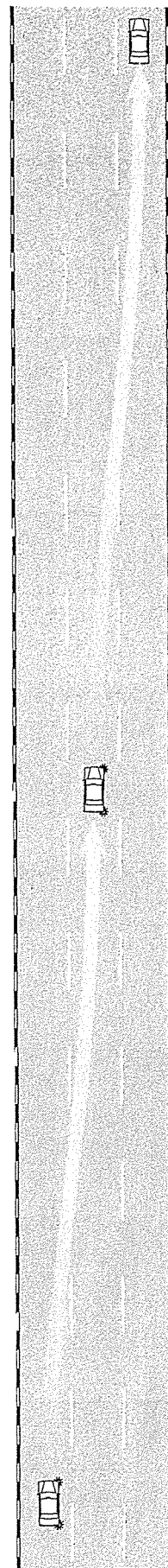




Lane Changing Procedures



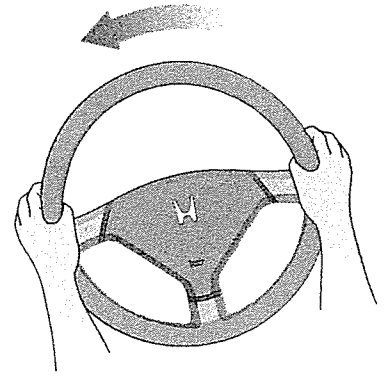
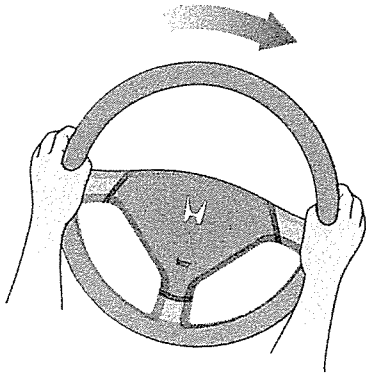
Changing lane in the diagonal procedure in the two lanes traffic.



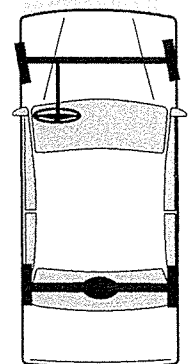
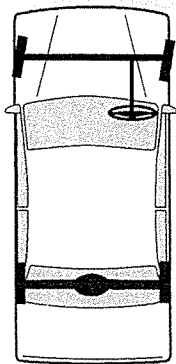
Changing lane in the diagonal procedure in the staggered manner for the two or more lanes traffic



Steering wheel



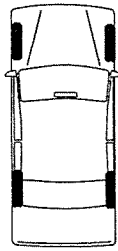
Forward movement



Reverse movement



Reversing & Target Estimation

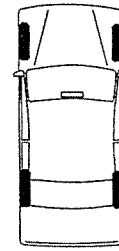


pole



Practise One

- a) Posture
- b) Slow speed control

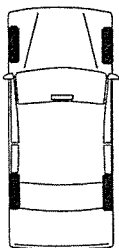


pole



Practise Two

- a) Steering wheel control
- b) Target estimation

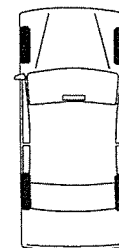


pole



Practise Three

- a) Trial for Directional Change
- b) Reverse and turn right



pole

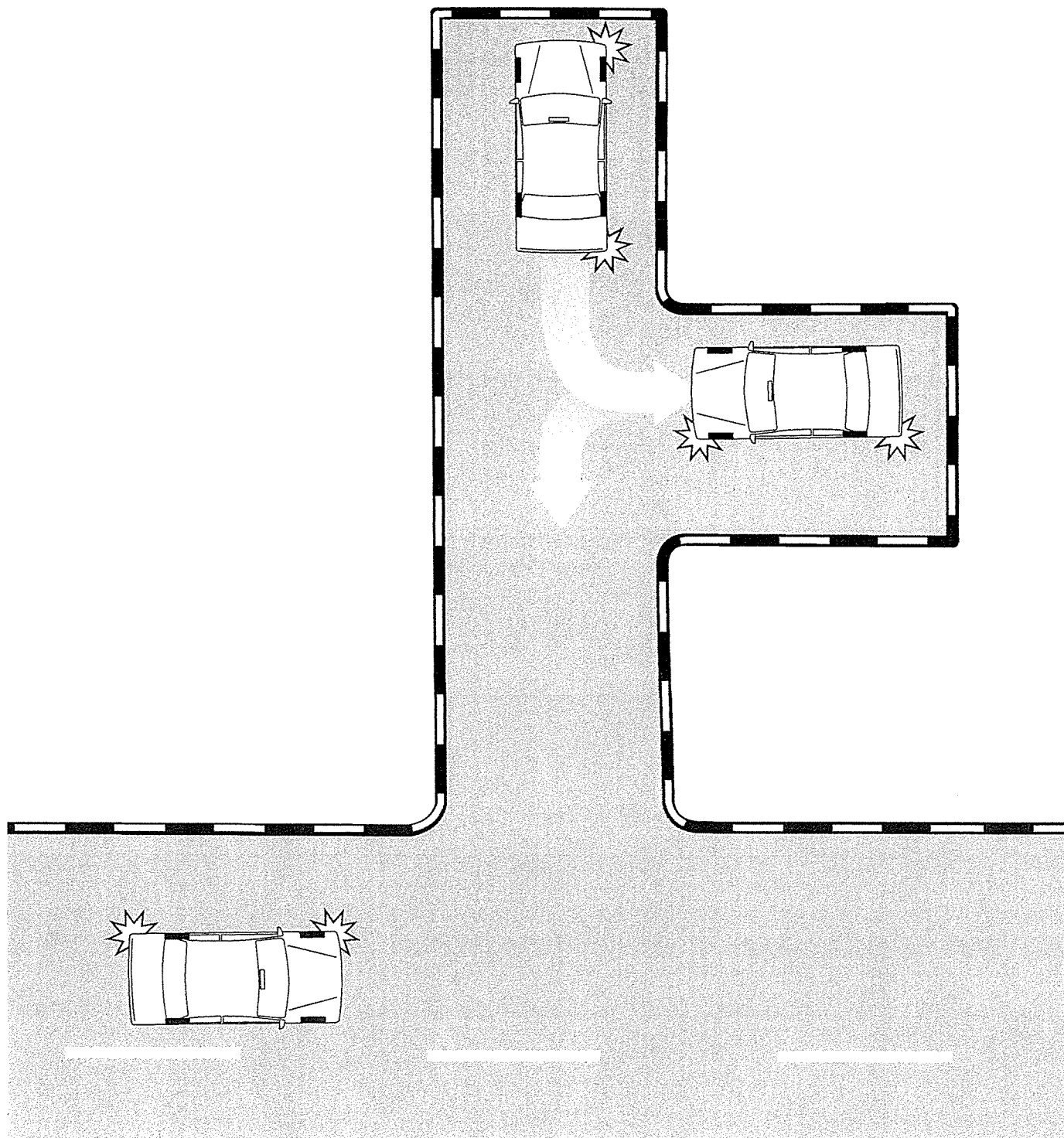


Practise Four

- a) Trial for Vertical Parking
- b) Reverse and turn left



Directional Change



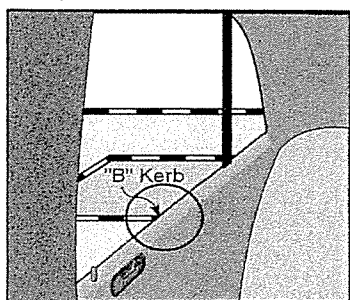


Directional Change

Step 1 Position the car in the centre of the lane and stop before hitting the front kerb.

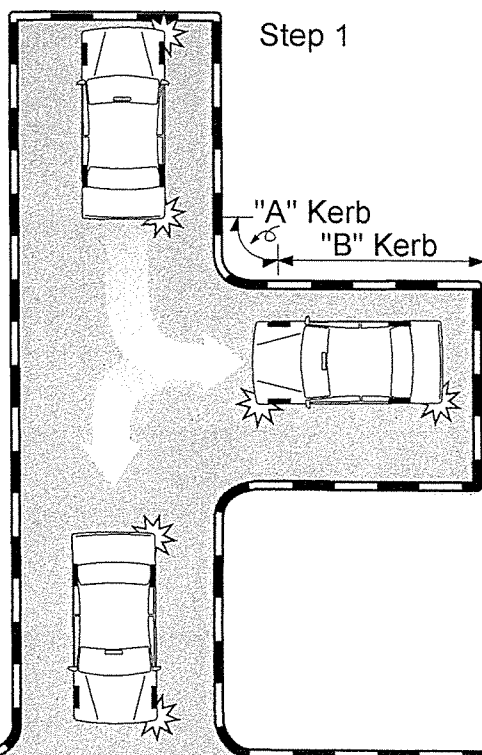
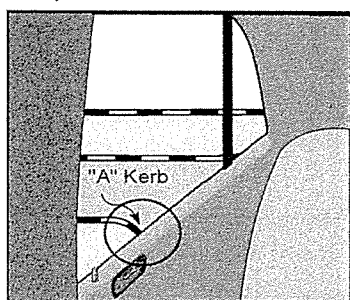
Step 2 After the safety check, reverse slowly until the sighting-point. At this point turn the steering wheel full-lock to the right.

Step 2



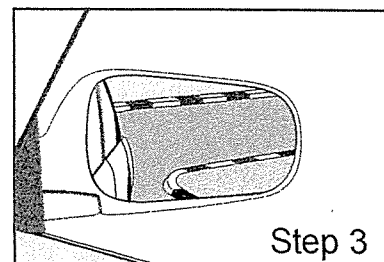
OR

Step 2

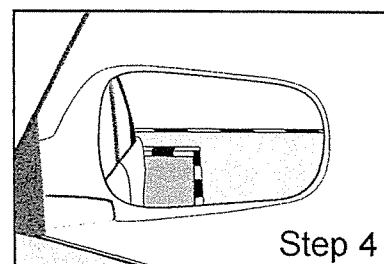


Step 1

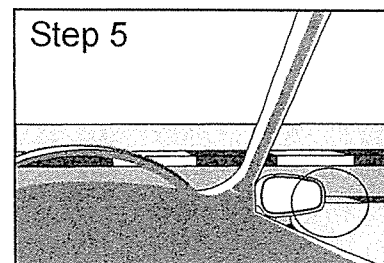
"A" Kerb
"B" Kerb



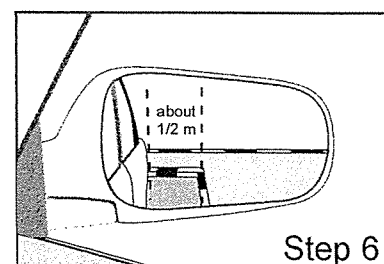
Step 3



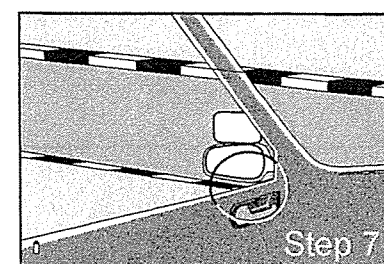
Step 4



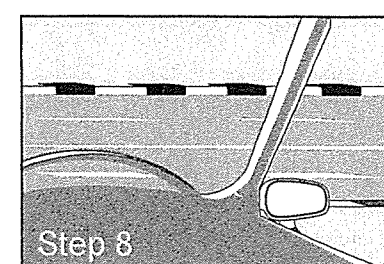
Step 5



Step 6



Step 7



Step 8

Step 3 Check and ensure that the rear right wheel does not hit the right kerb through the right side view-mirror.

Step 4 When the car is almost parallel to the left and right kerb of the reversing lot, straighten the steering wheel.

Step 5 Reverse until the side view-mirrors are covering the left and the right kerb and stop.

Step 6 Check for the side clearance before going out of the reversing lot.

Step 7 When the left view mirror is in-line with the left kerb, turn the steering wheel full lock to the left.

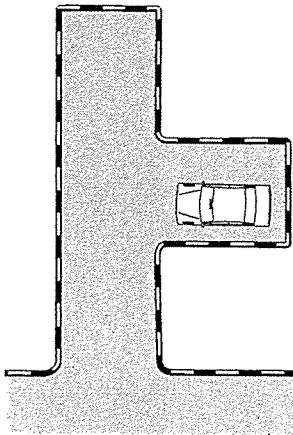
Step 8 Ensure that the left rear wheel does not hit the left kerb and the front right wheel does not hit the front kerb too. Upon reaching the exit, position the car in the centre of the exit and straighten the steering wheel.



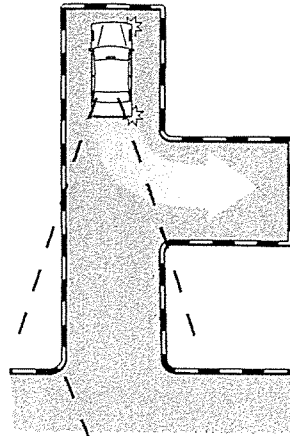
SINGAPORE SAFETY DRIVING CENTRE LTD

Corrective Action

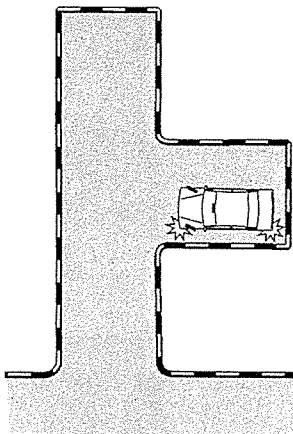
Safety Checking



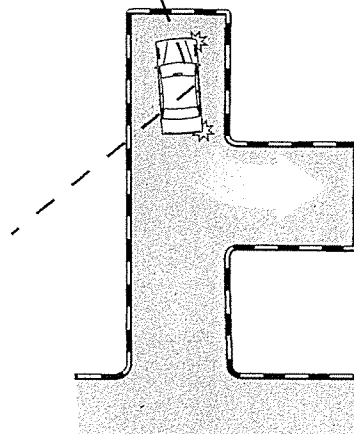
- 1) If the position of the vehicle is too far from kerb on your right, this shows that it is nearer to the kerb on your left.



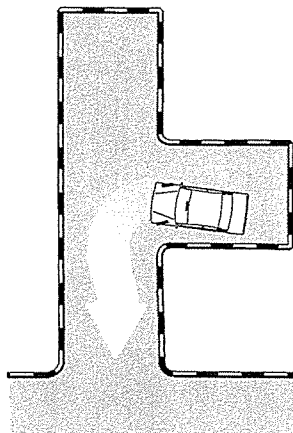
- 1) Check through the rear windscreen before reversing.



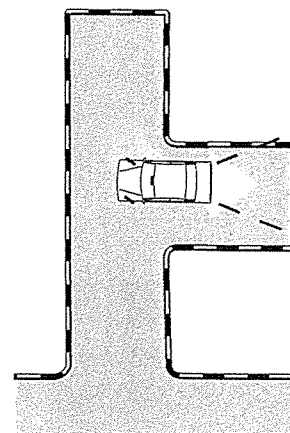
- 2) Then turn the steering wheel one round to the right when moving out of the lot.



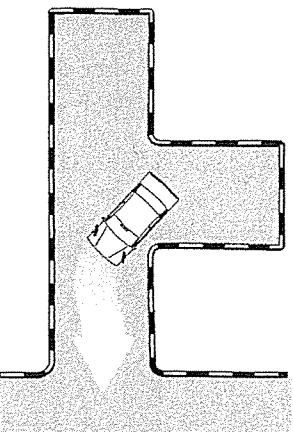
- 2) Check front left before turning the steering wheel full lock to the right.



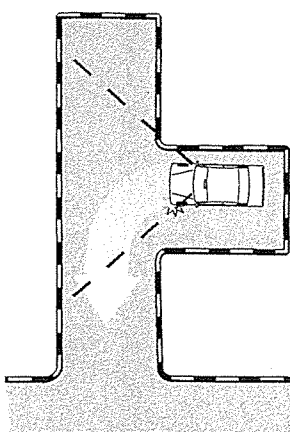
- 3) Move at a very low speed, in order to have a better control.



- 3) Check through the rear windscreen before reversing into the lot.



- 4) If you think that it is too close to the front kerb, stop before hitting the kerb. While reversing straighten the steering wheel before redoing.

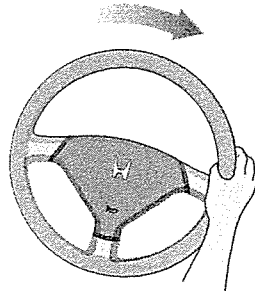
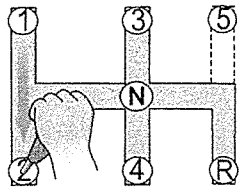


- 4) Check right and left for safety before moving out of the reversing lot.



RIGHT TURN (Gear Shift)

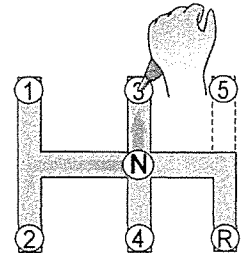
At this point, hold the steering wheel and shift up to 2nd gear.



Control / Hold

When the road is clear, increase the speed before changing to 3rd gear and so on...

For lane discipline, move to the left lane when it is safe to do so.

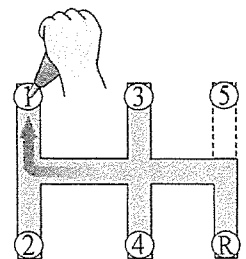


2nd gear

3rd gear

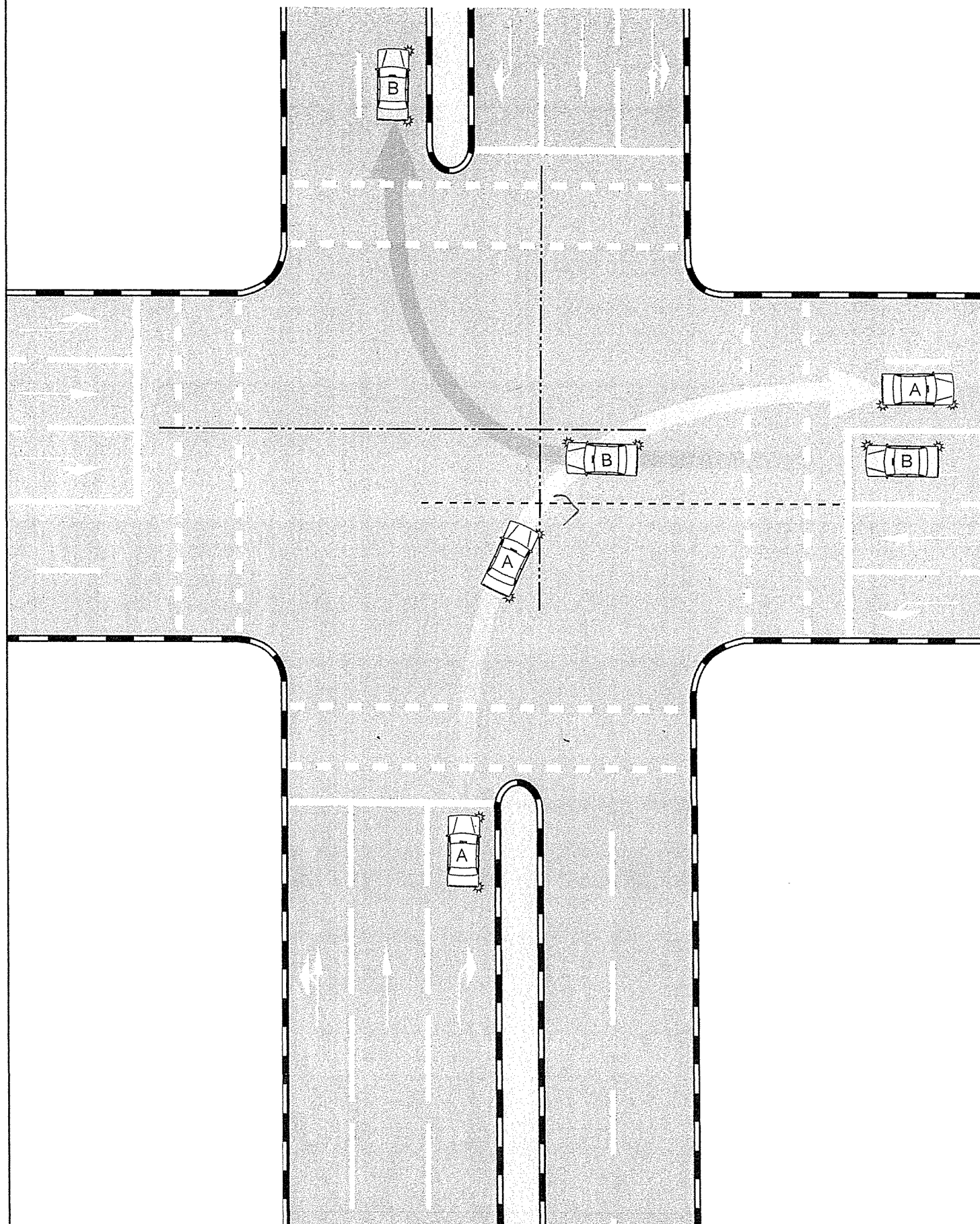
1st gear

After stopping, ensure 1st gear is engaged. Check to the right, left and right again. At the same time depress the accelerator pedal slightly and release the clutch pedal to the biting point, is to prepare to move off when it is safe to do so. (When at slope apply the handbrake before doing the biting point).



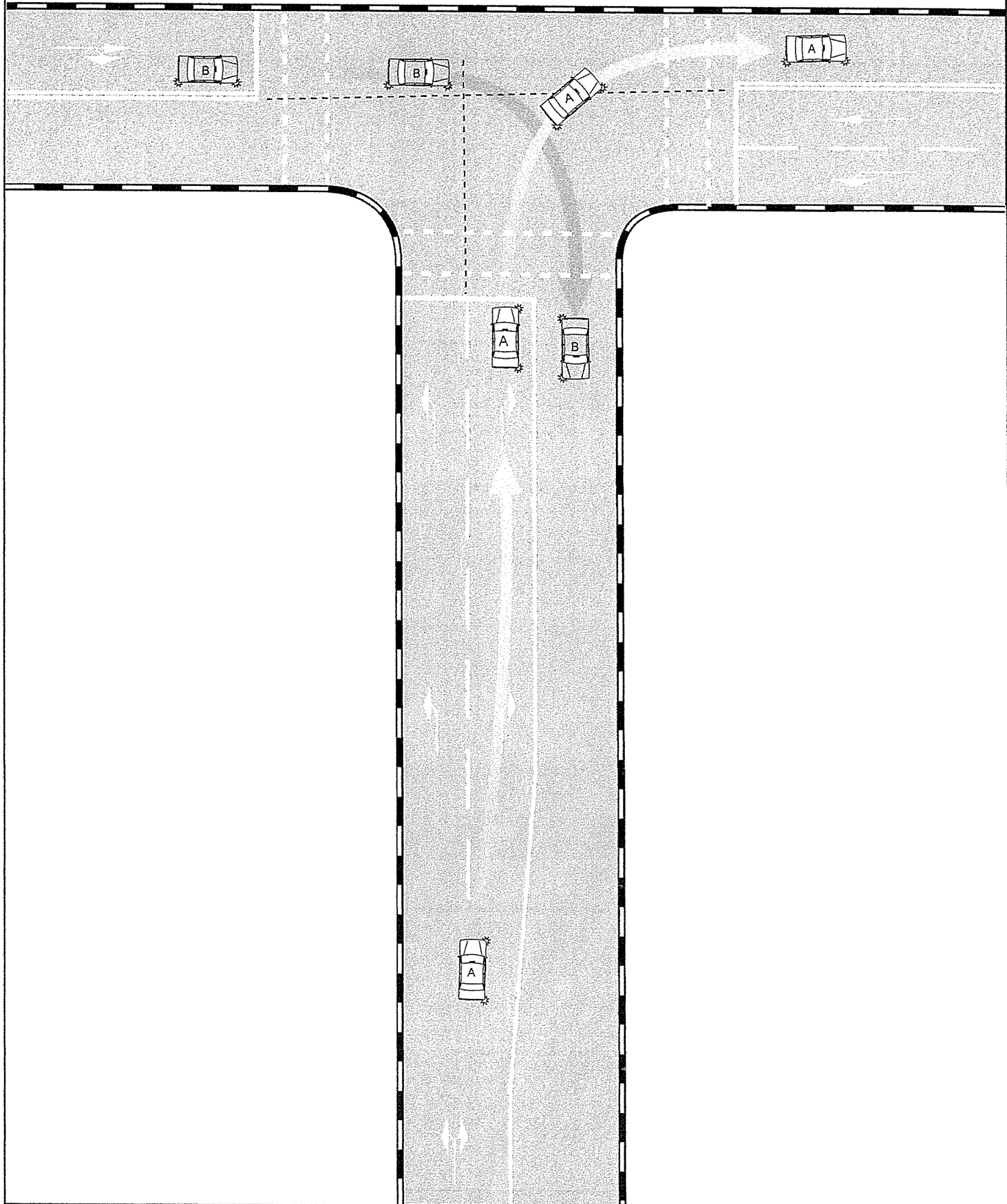


Right Turn (Position Before Turning Right)



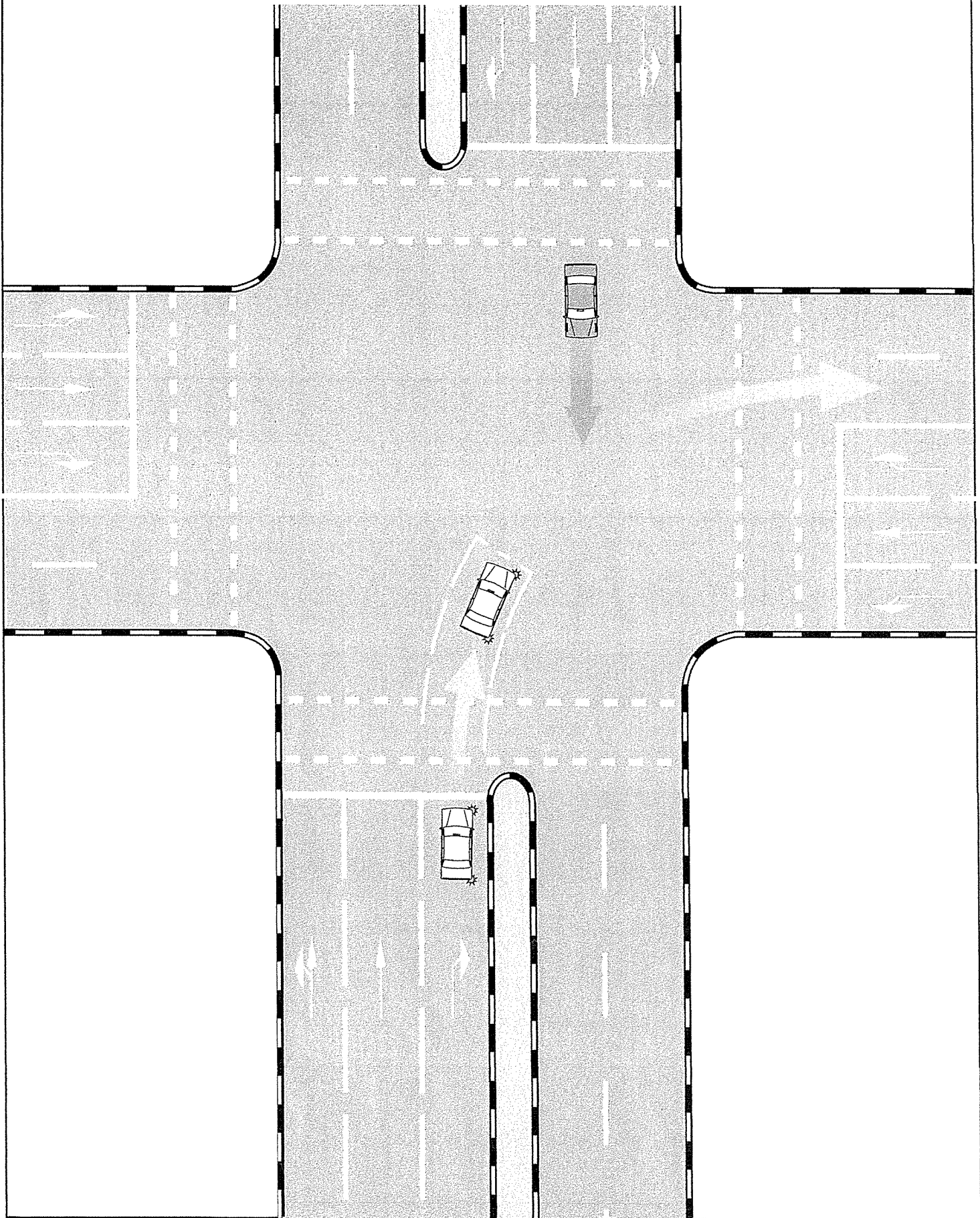


Right turn at 'T' junction (Position Before Turning Right)



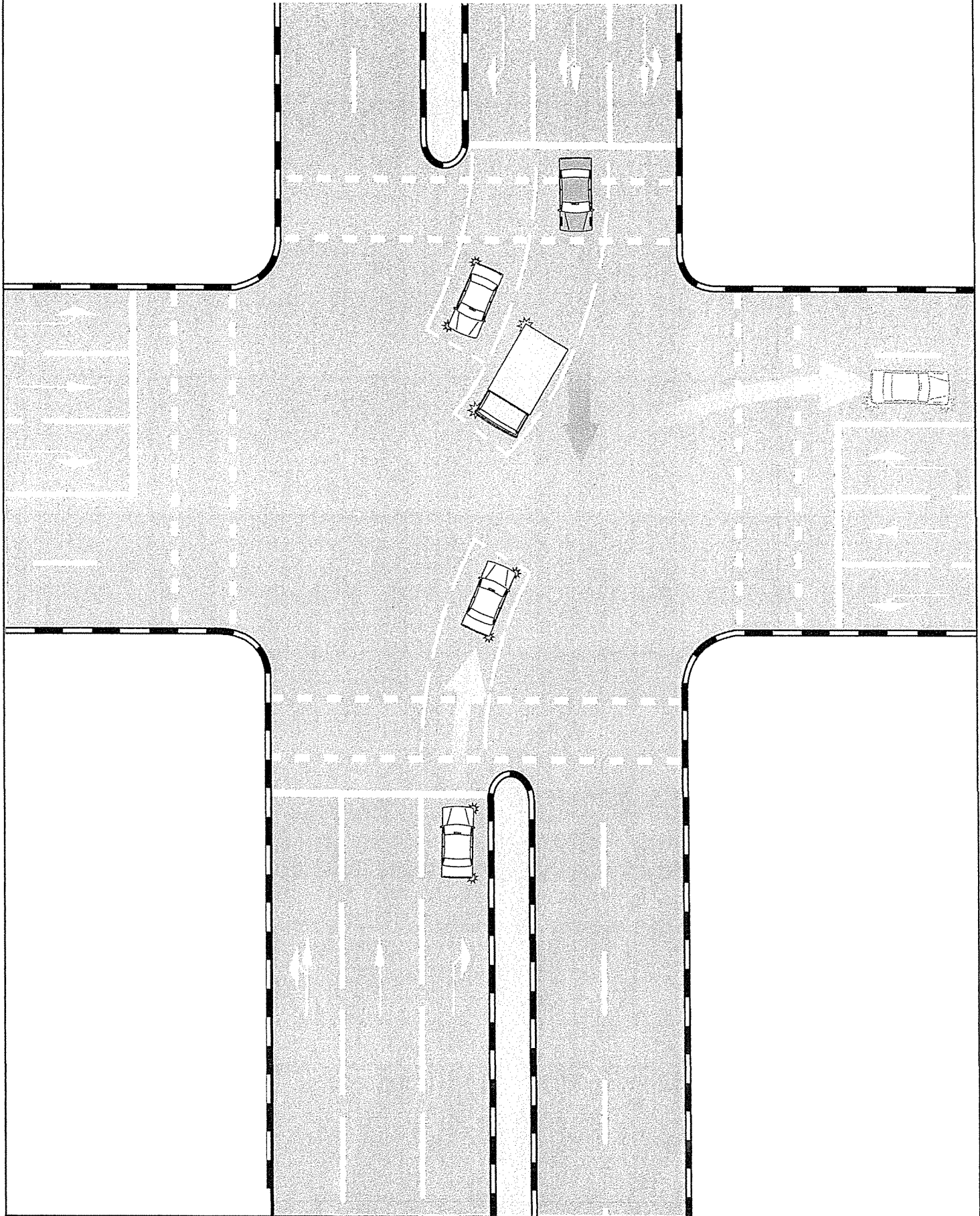


Right Turn (Give-way)



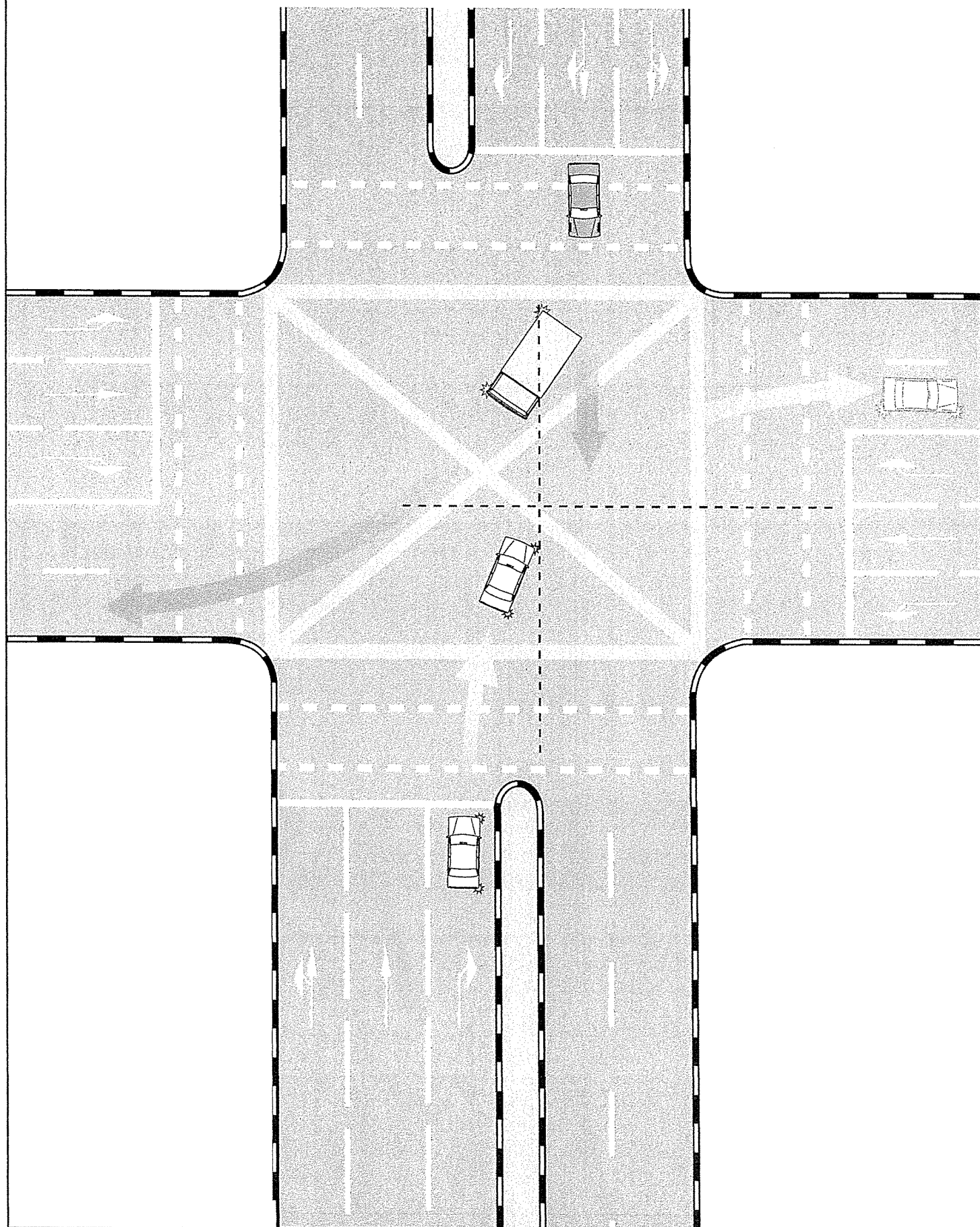


Right Turn (Give-way)



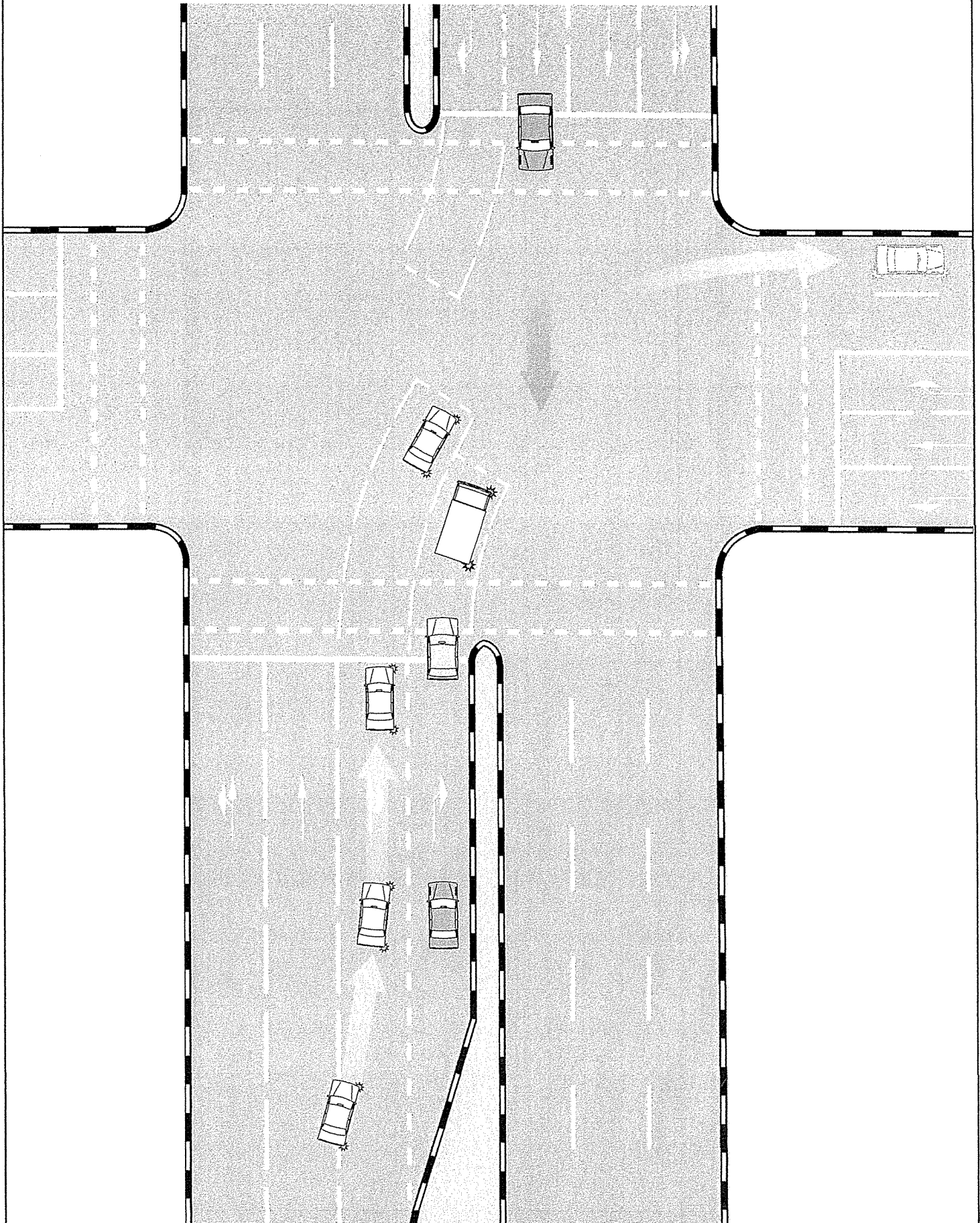


Right Turn (Give-way)



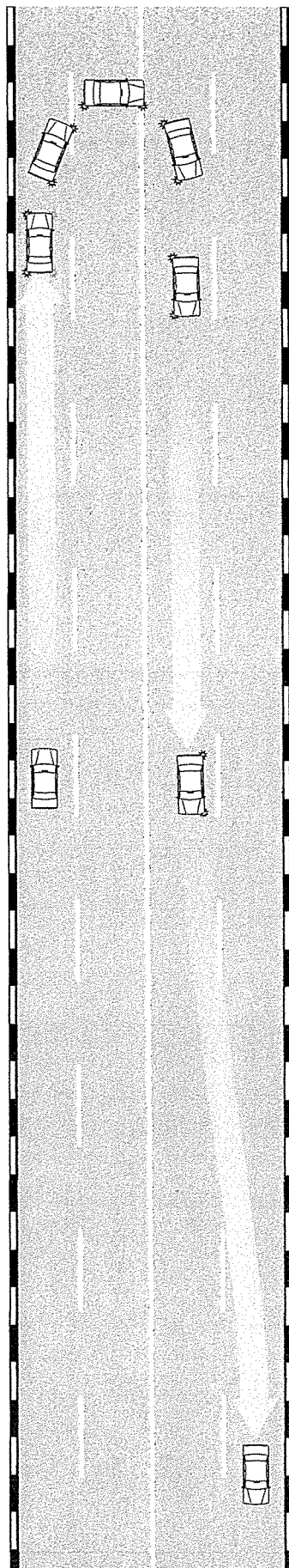


Right Turn (Using 2nd lane to turn right)



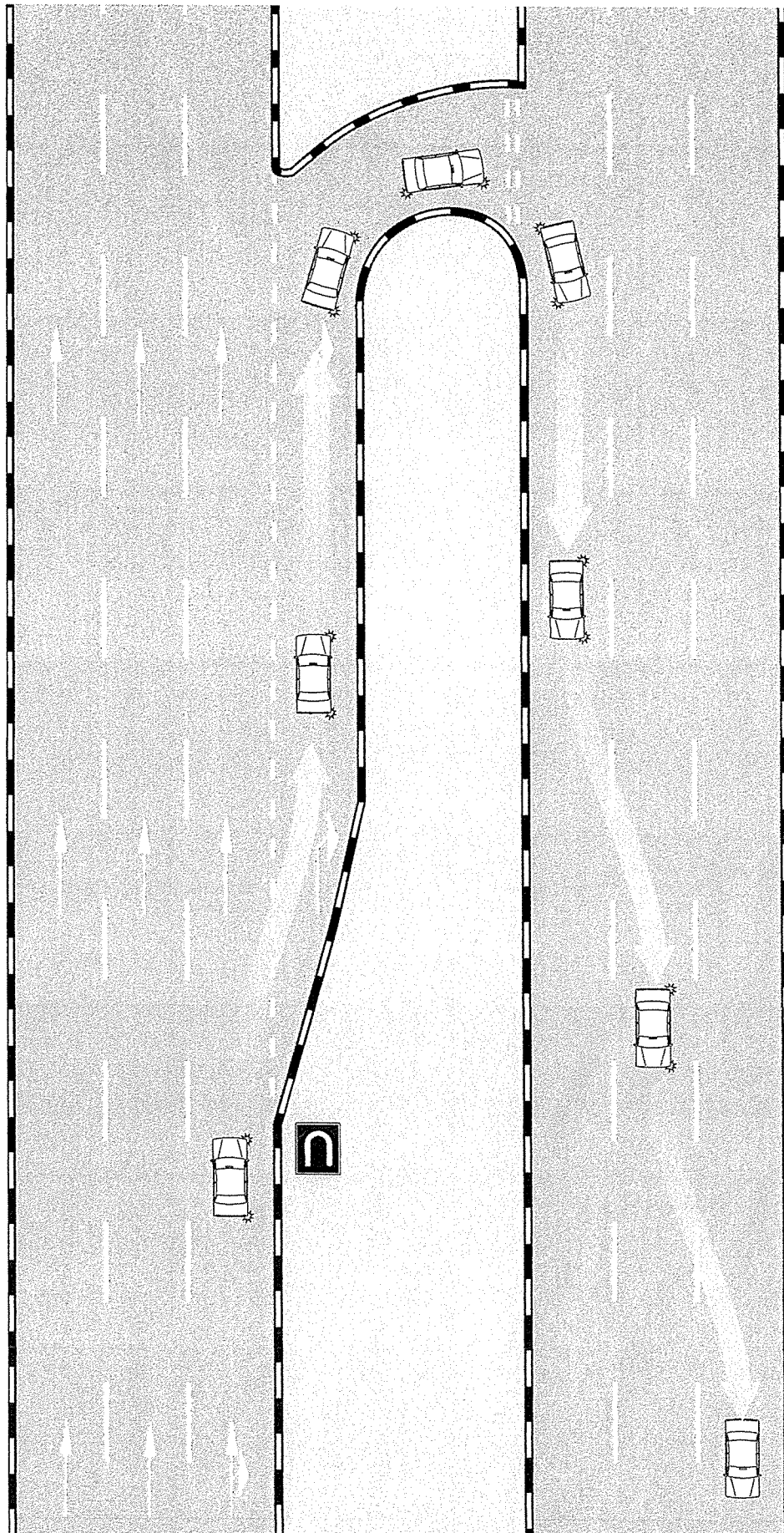


'U' Turn (at continuous white line)



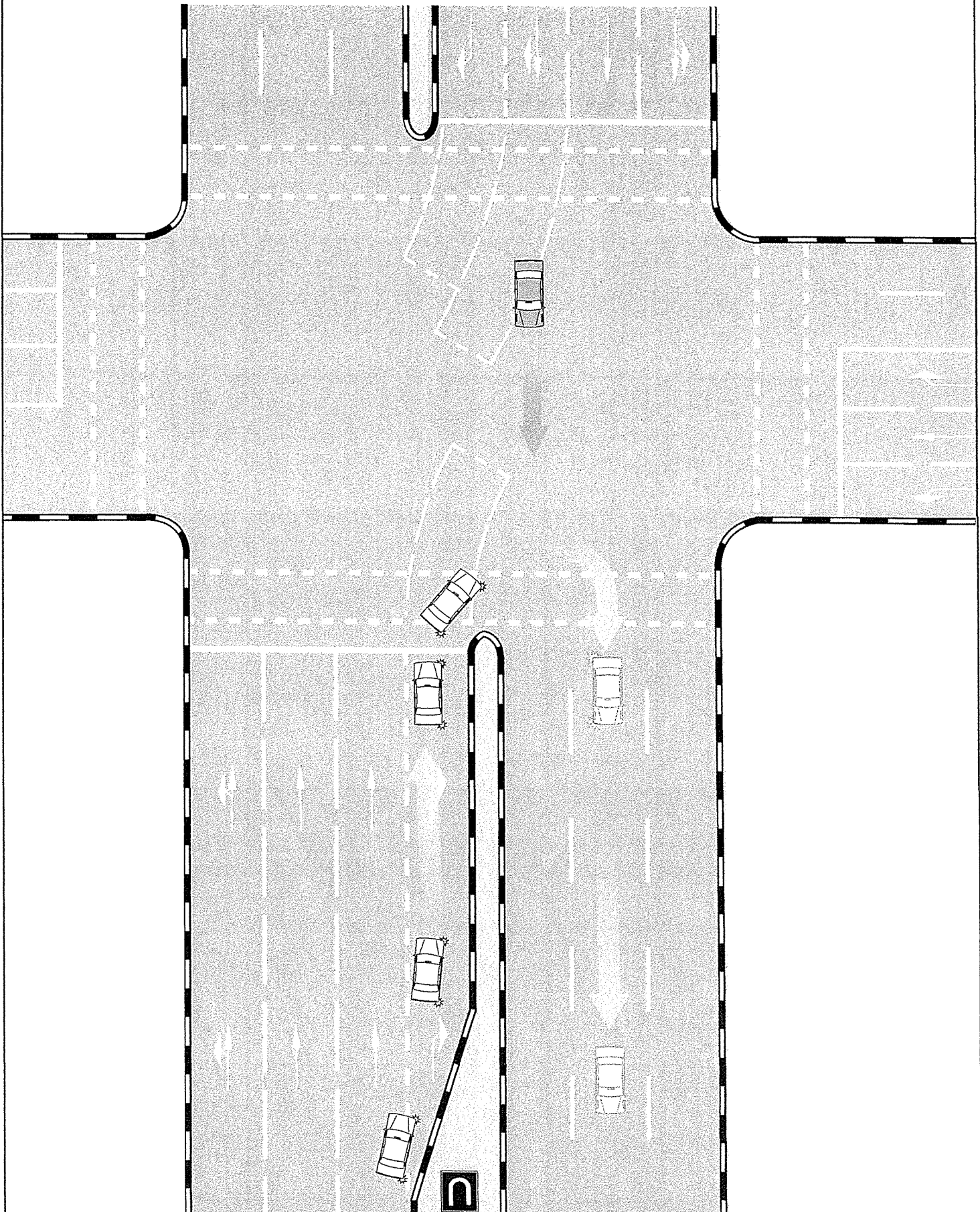


' U ' Turn (Wide divider)



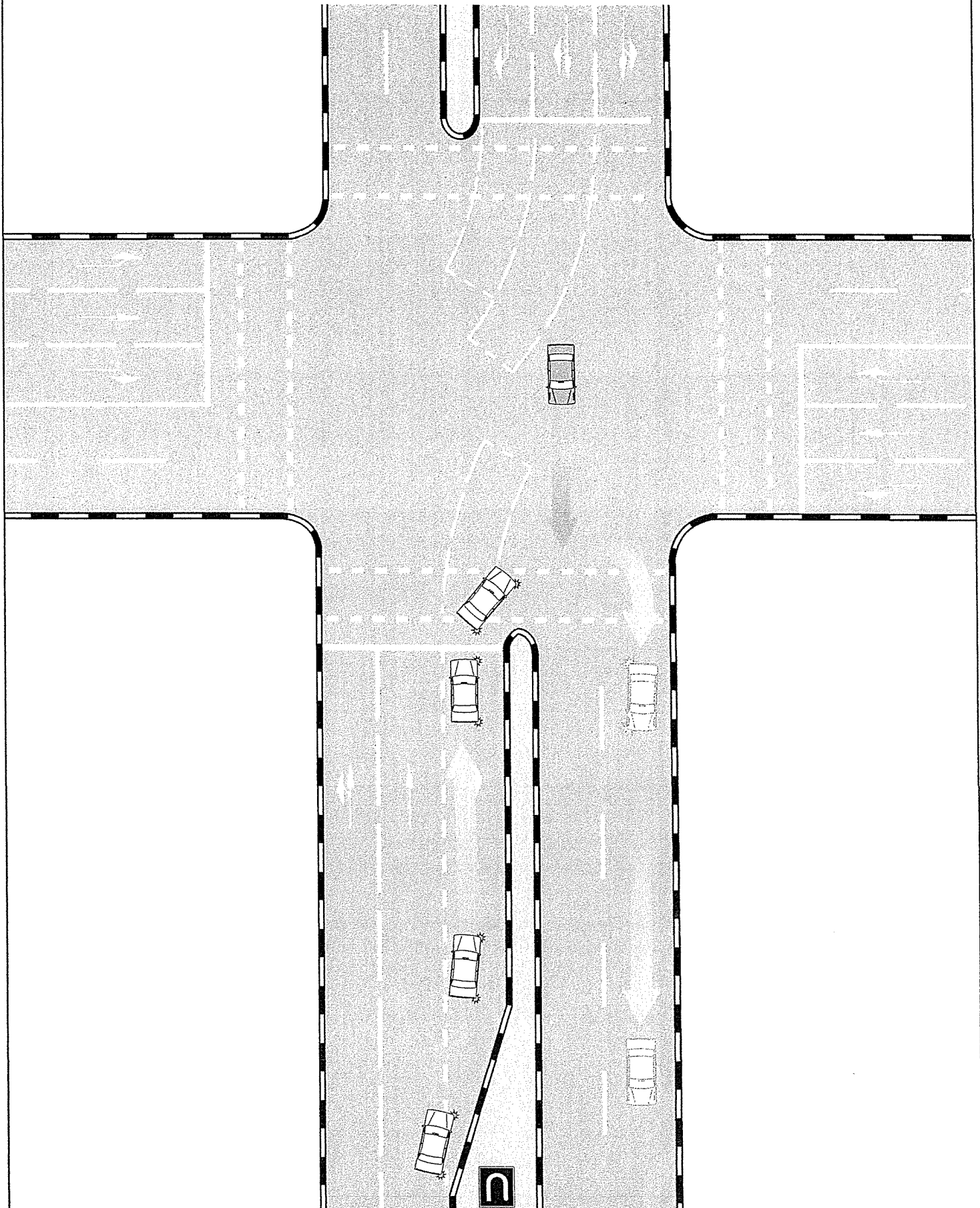


' U ' Turn (small kerb / divider with 3 lanes)



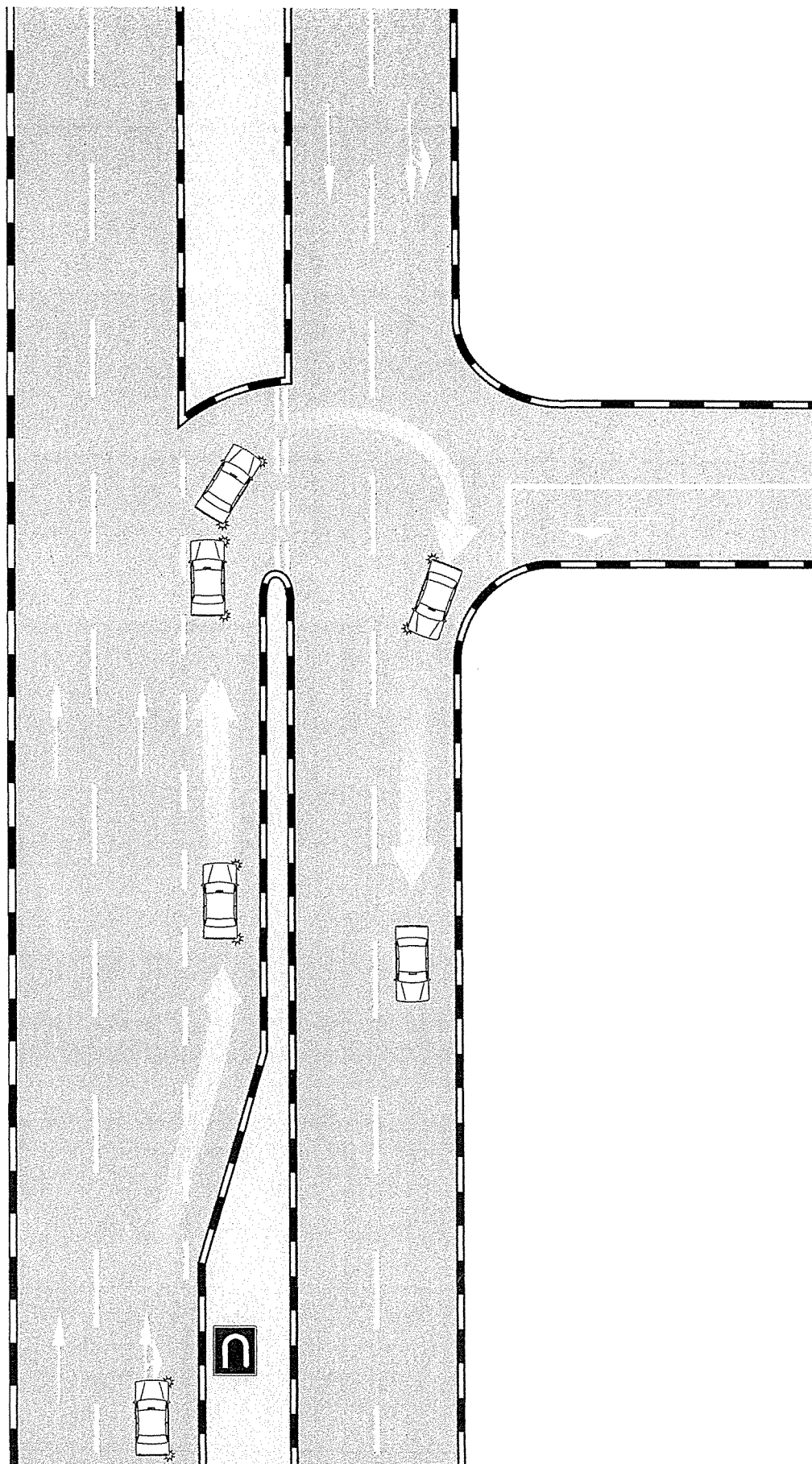


' U ' Turn (small kerb / divider with 2 lanes)



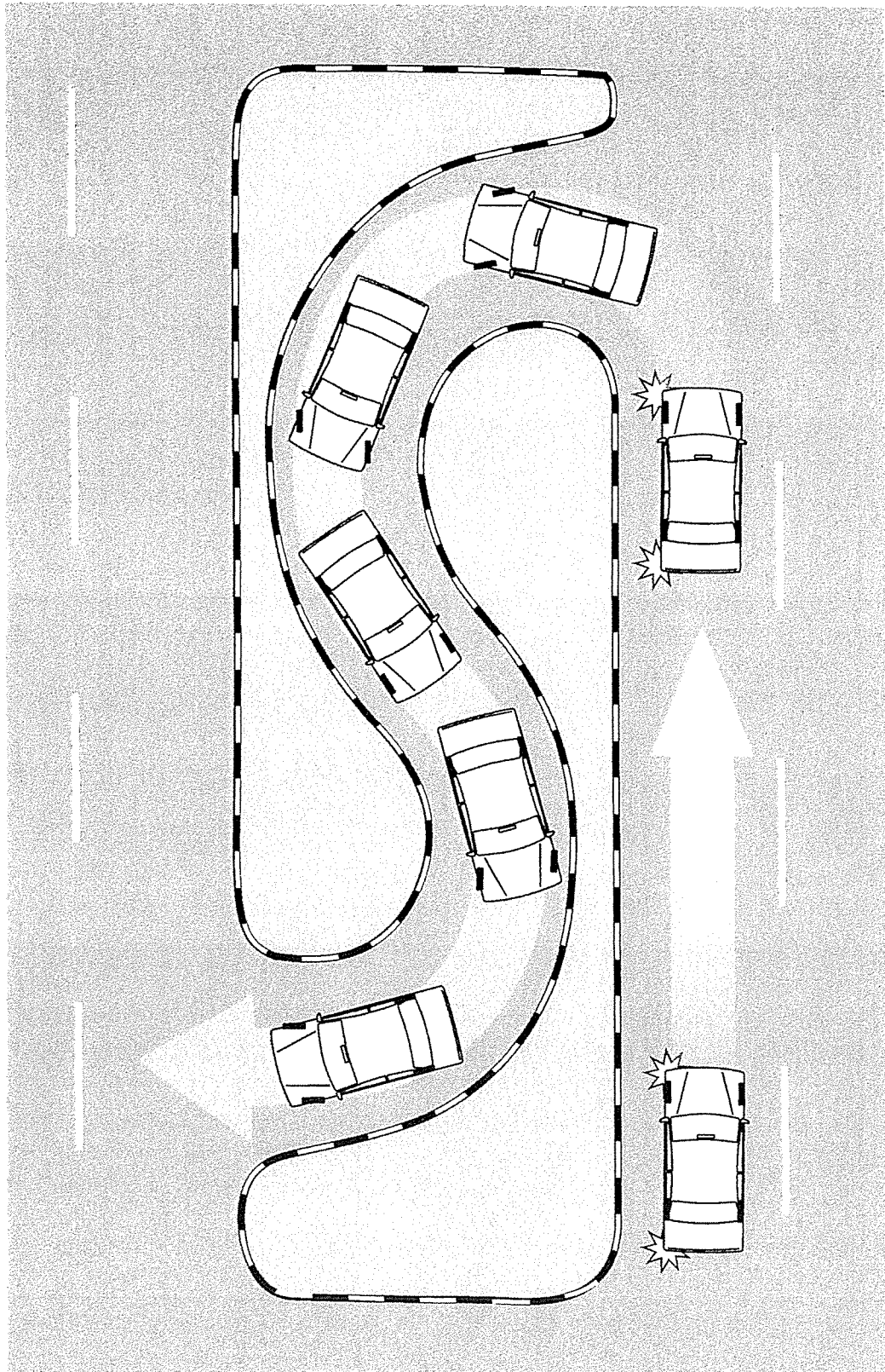


' U ' Turn (small kerb / divider with 2 lanes)



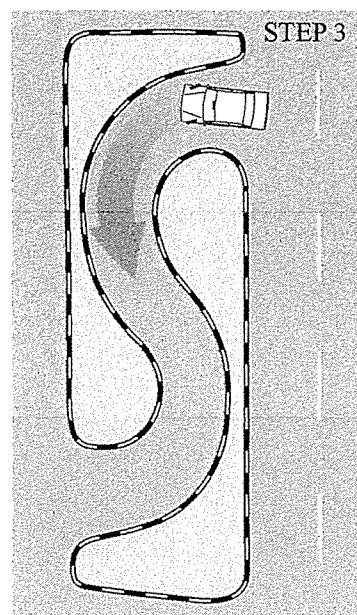


'S' Course

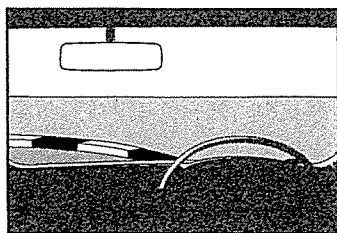




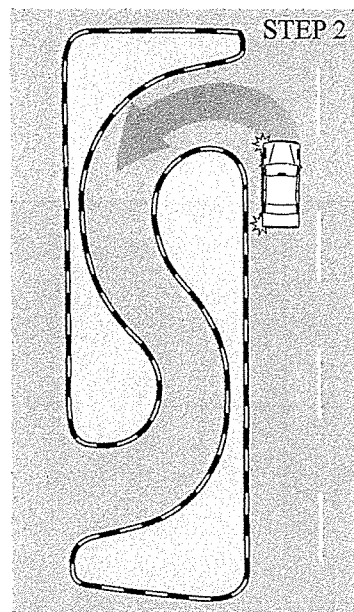
'S' course



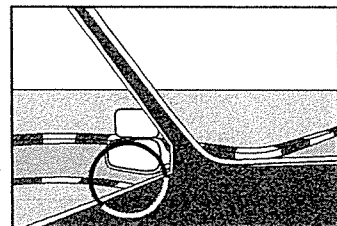
STEP 3



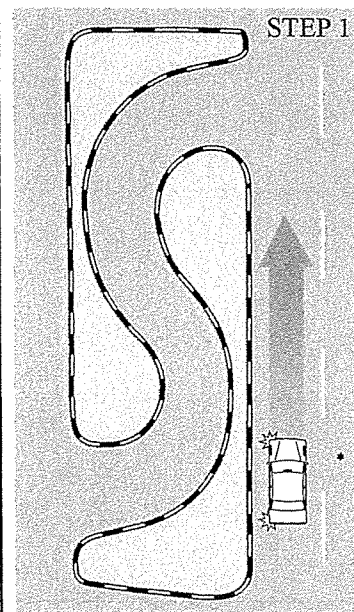
After turning ensure the vehicle is moving in the centre of the track, by keeping the front left wheel moving in the centre of the track or the centre of the bonnet is moving in-line with the front kerb.



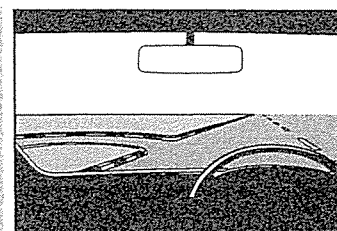
STEP 2



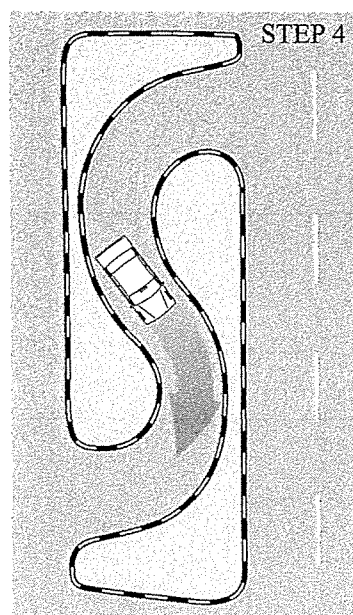
Check the blind-spot on the left, if safe when the left side mirror is in line with the tip of the left kerb, turn the steering-wheel to the left.



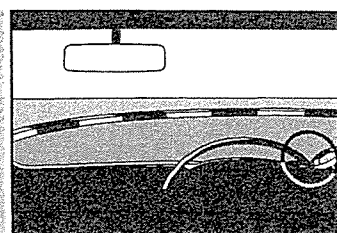
STEP 1



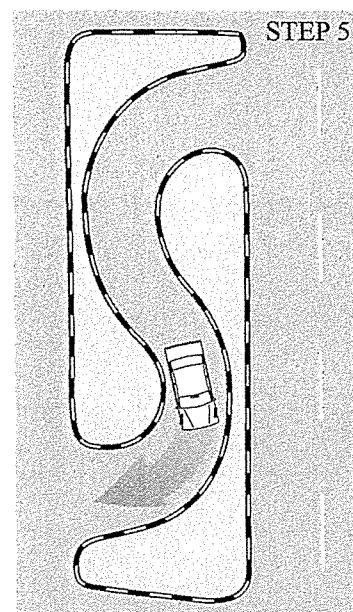
Check the mirrors, signal intention to the left, position the car about a meter away from the left kerb



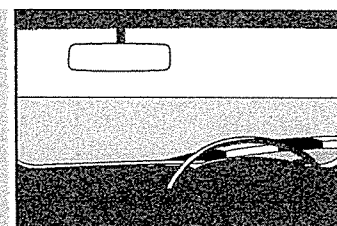
STEP 4



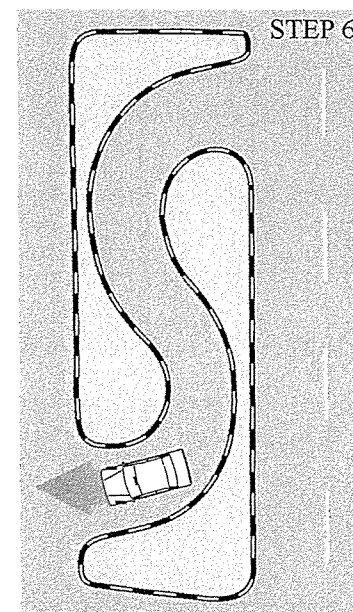
When the right kerb is inline with the right bottom of corner of the front windscreen, straighten the steering wheel.



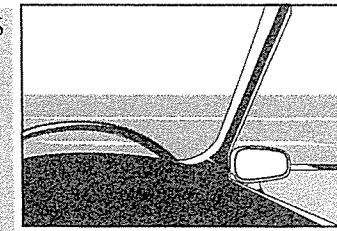
STEP 5



When the centre of the bonnet is in line with the left kerb, turn the steering to the right. Ensure the vehicle is moving in the centre of the track, by keeping the front right wheel moving in the centre of the track.



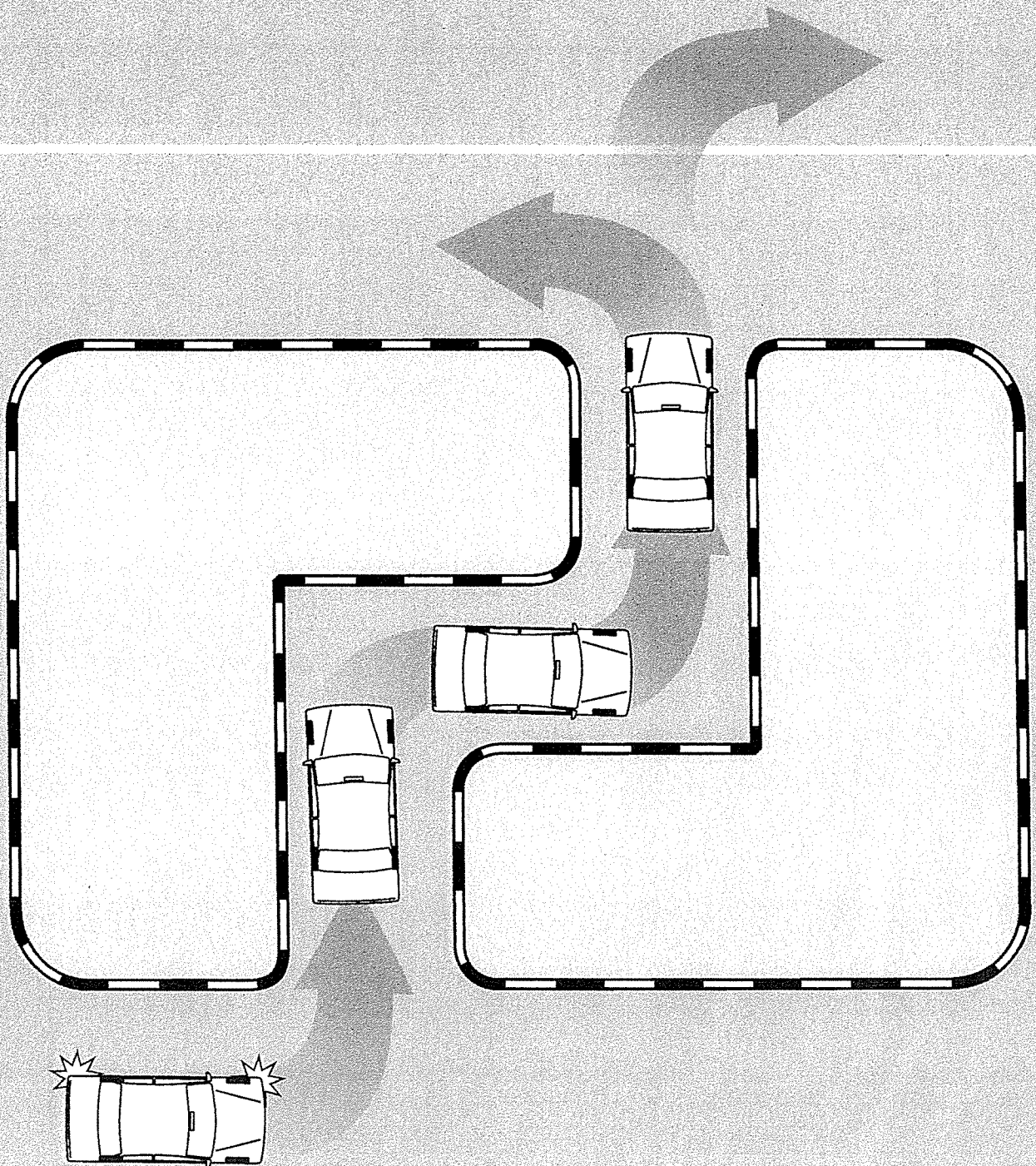
STEP 6



Upon reaching the exit, position the car in the centre of the exit and straighten the steering wheel.



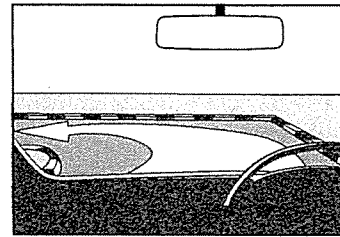
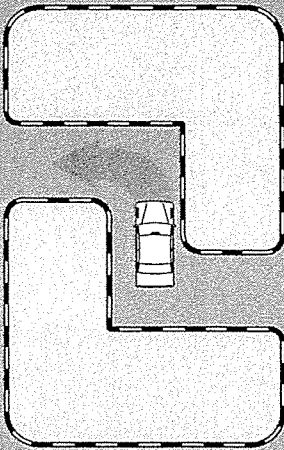
Crank Course





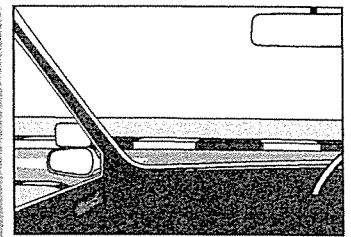
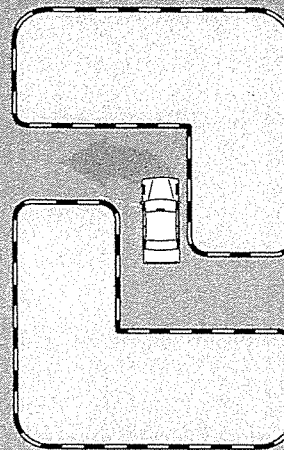
Crank course

STEP 3



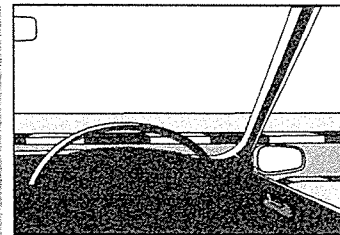
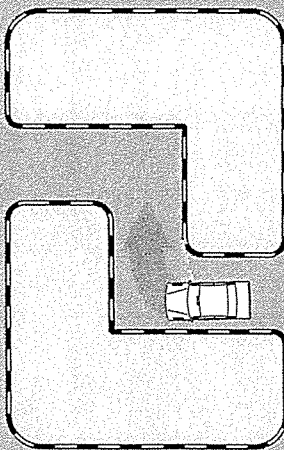
When the car is almost parallel with the right kerb, straighten the steering-wheel and position slightly to the right is to prepare to turn to the left safely.

STEP 4



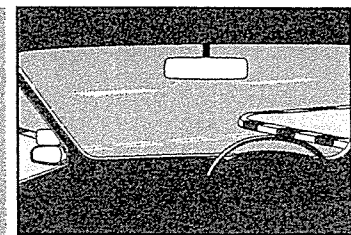
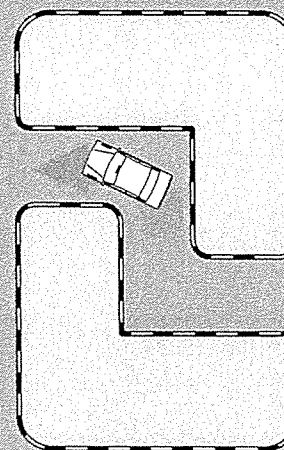
When the left kerb appeared below the left side-view mirror, turn the steering full lock to the left.

STEP 2



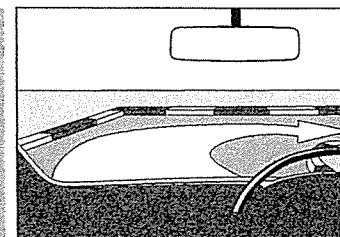
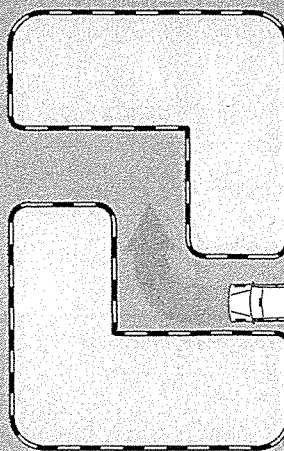
When the right kerb appears below the right side-view mirror, turn the steering full lock to the right.

STEP 5



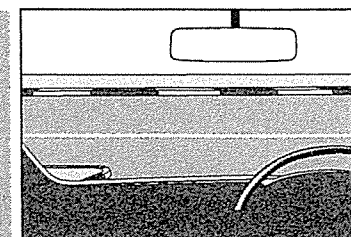
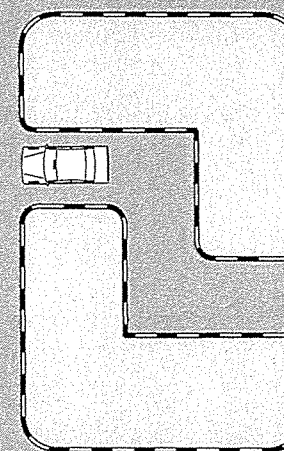
Upon reaching the exit, position the car in the centre of the exit and straighten the steering-wheel.

STEP 1



Upon entering, position the car slightly to the left, this is to prepare for the next turn to the right safely.

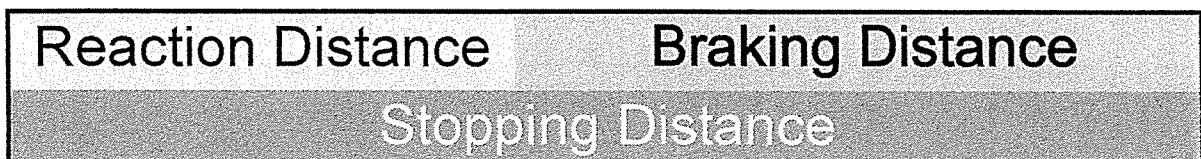
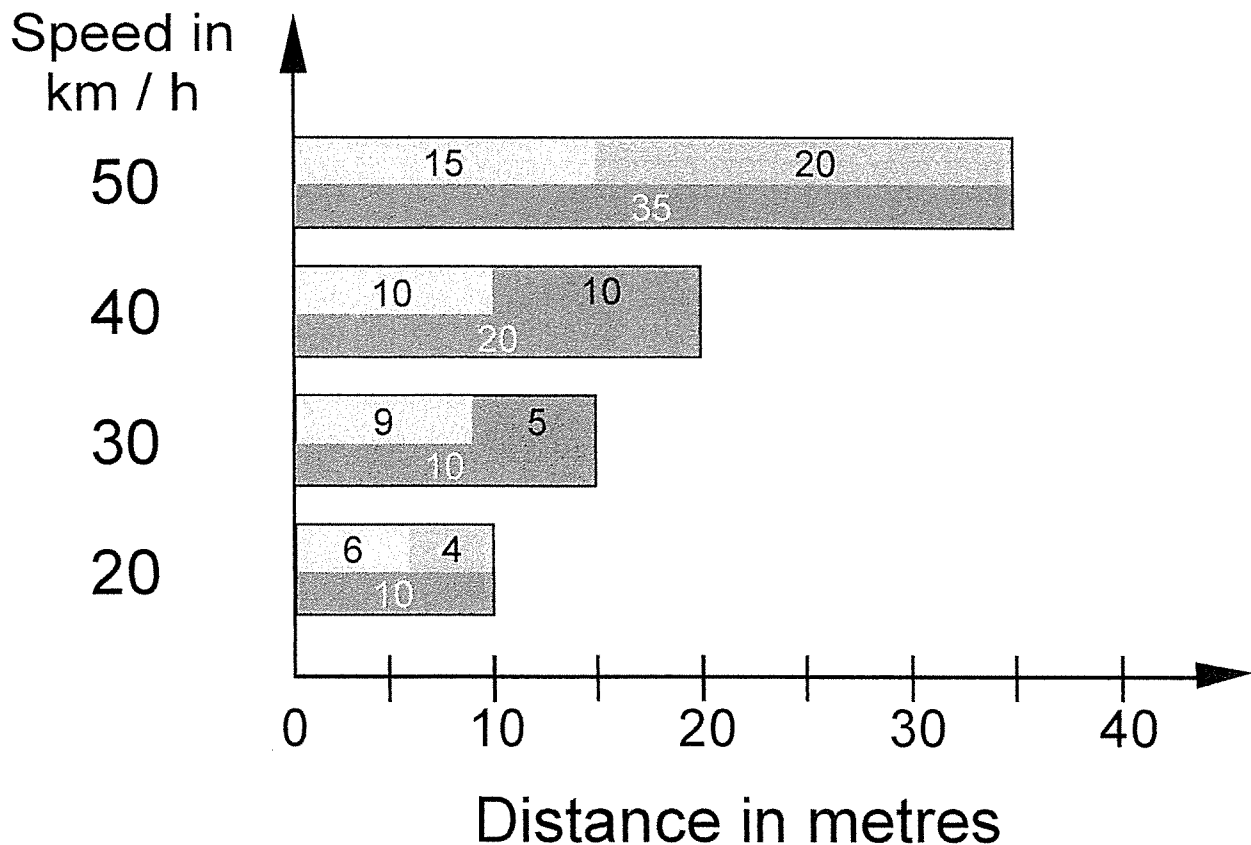
STEP 6



Check the mirrors, signal your intention and check the traffic on the right and left before moving out of the course.



Stopping Distance



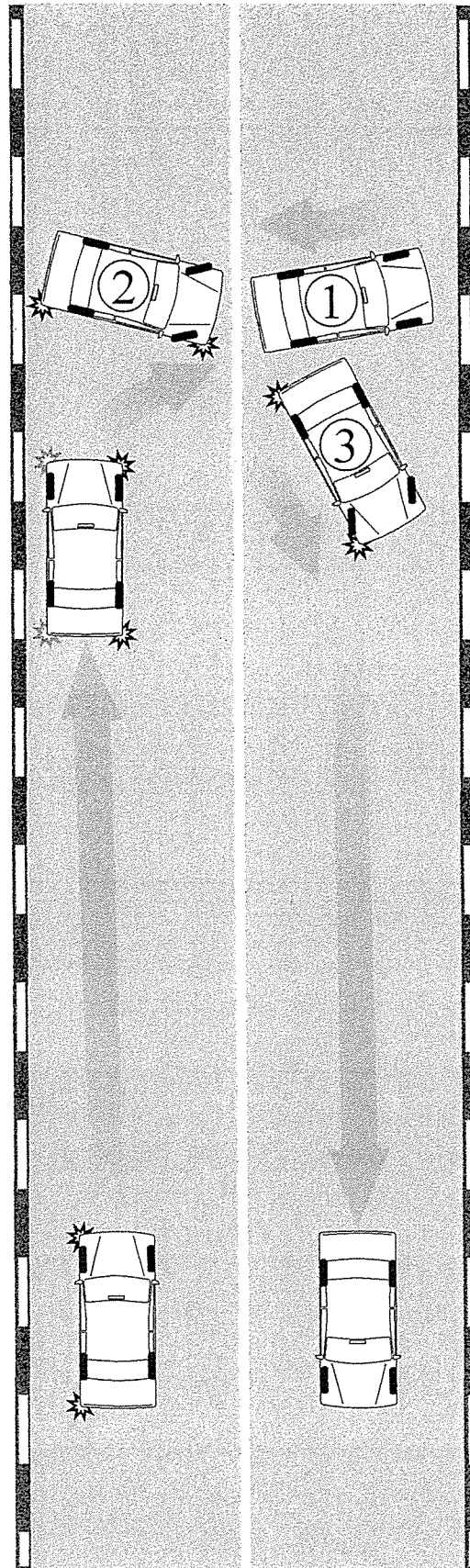
Reaction Distance - is the distance travelled by the car from the moment the driver sees a danger to the time the driver applies the brake.

Braking distance - is the distance travelled by the car from the moment the brake is applied to when the car comes to a complete stop.

Stopping distance - is the distance travelled by the car from the moment the driver sees a danger to the time that the car comes to a complete stop.



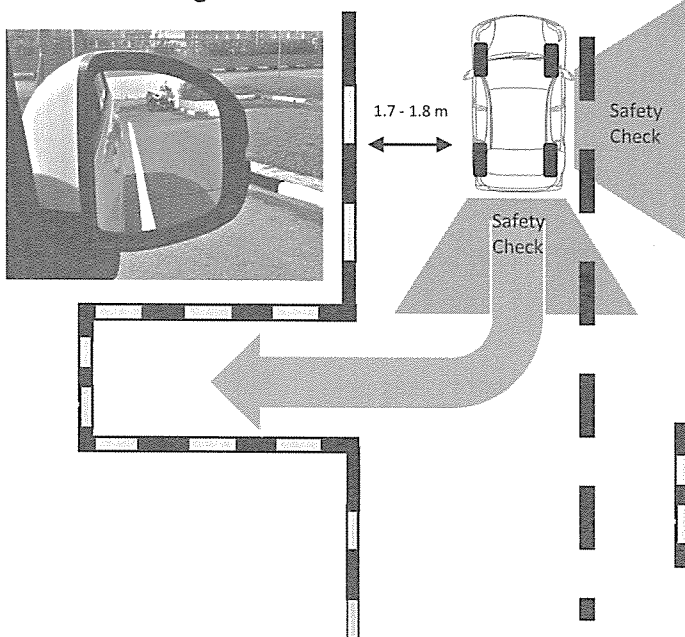
3 points turn



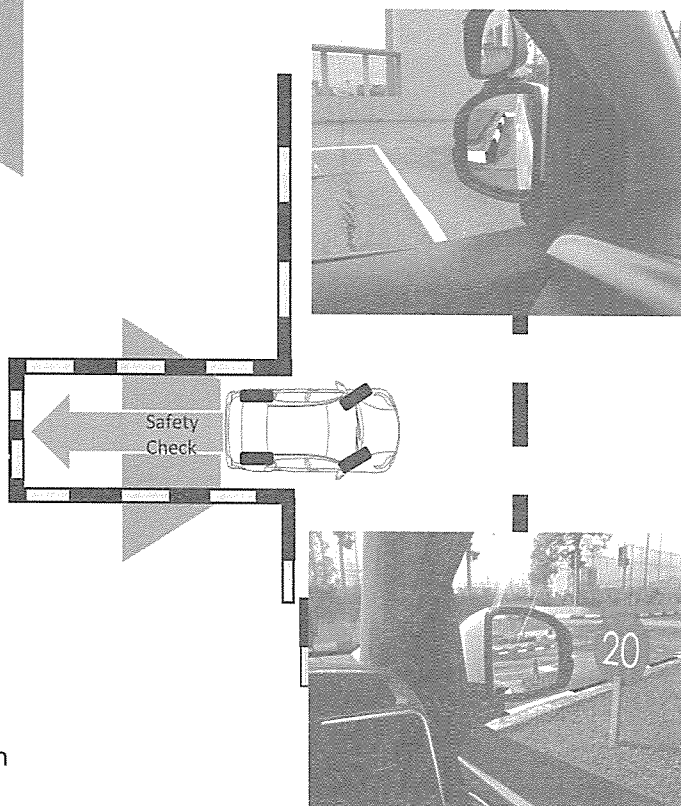
Vertical Parking

GOING IN

STEP 1: Position the car closer to the centre line about 1.7 to 1.8 meters from the left kerb. Engage reverse gear, check on the front, right and look through the rear windscreen for safety before reversing.

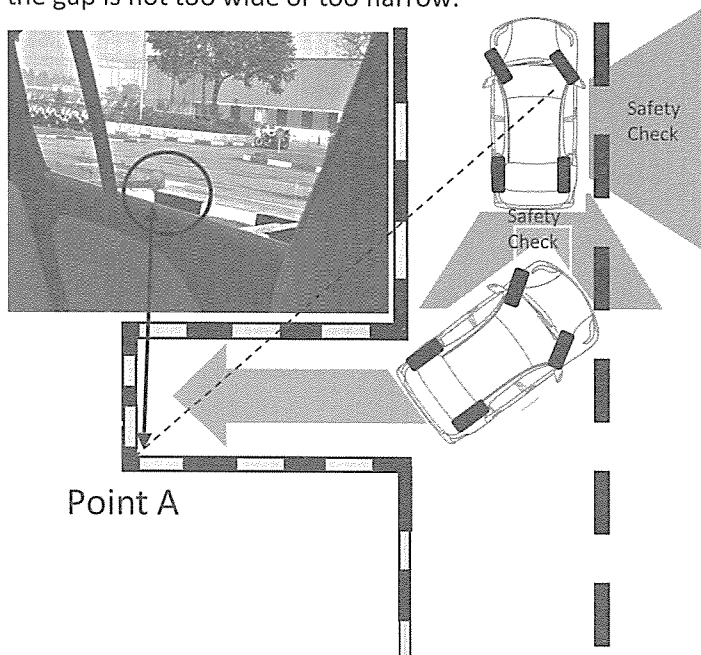


STEP 3: By looking at the left and right side mirror, when the car body is almost parallel with the left and right kerb, turn the steering wheel to 2 rounds to the right to straighten the tyres. Check safety through the rear windscreen while you are reversing. Stop when the side mirrors is in line with the kerb.



STEP 2: Reverse the car slowly and look through the rear left door window to see the turning point in line with the inside corner (**Point A**) of the parking lot. (Instructor will assist to get and determine the sighting point). About to reach the turning point, stop to confirm safety on the right, move the car and full lock the steering wheel to the left.

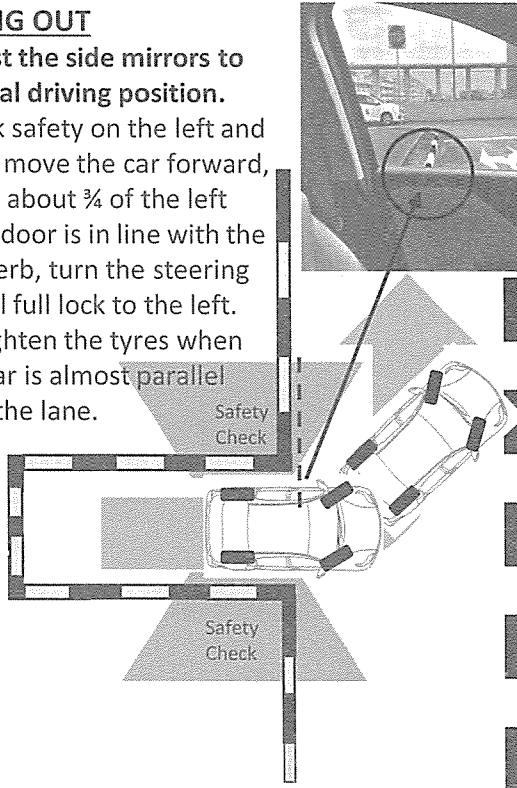
Adjust the left side mirror downwards to check the gap between the rear left wheel and the kerb. Ensure that the gap is not too wide or too narrow.



Vertical Parking

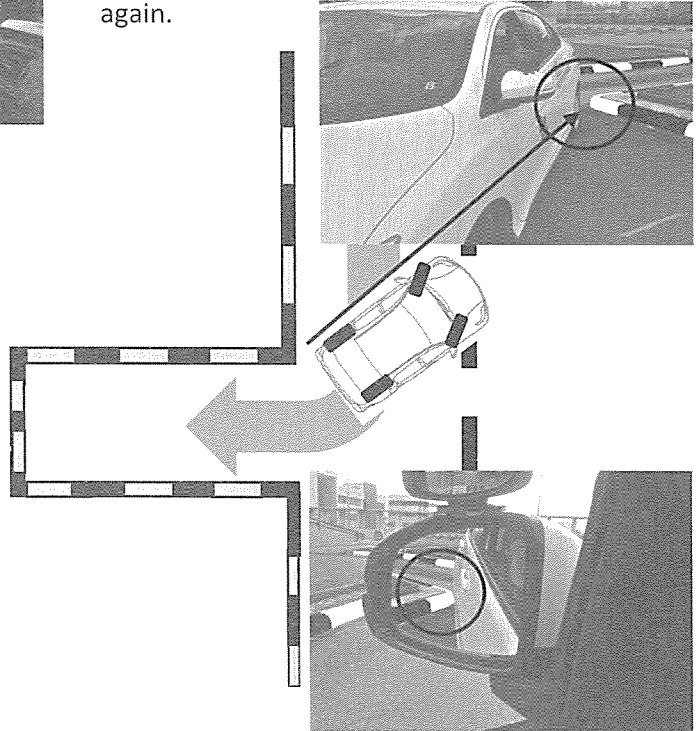
GOING OUT

Adjust the side mirrors to normal driving position. Check safety on the left and right, move the car forward, when about $\frac{3}{4}$ of the left front door is in line with the left kerb, turn the steering wheel full lock to the left. Straighten the tyres when the car is almost parallel with the lane.

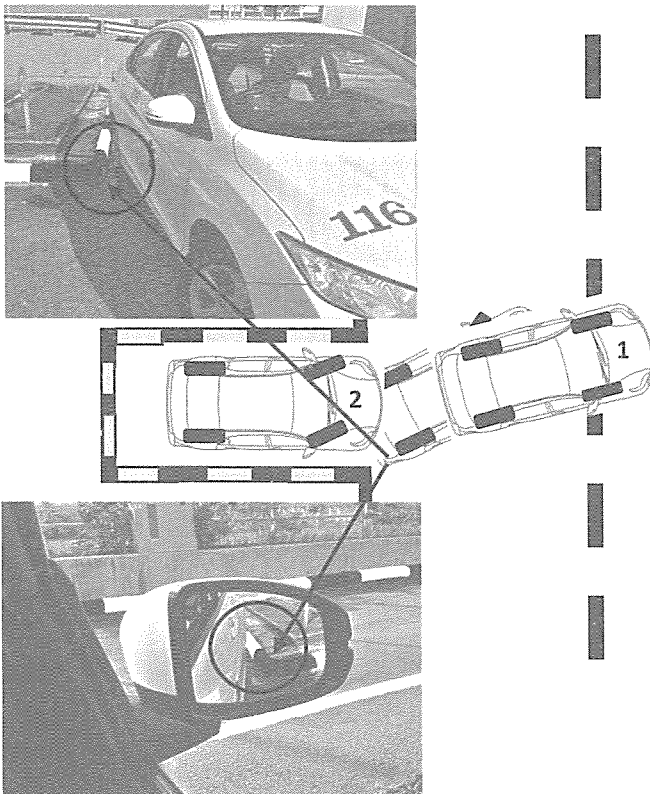


CORRECTIVE ACTIONS

SCENARIO 1 : If turn too early. The rear left tyre is too close to the left corner of the kerb, move forward and reposition the car again.



SCENARIO 2 : If turn too late, the rear right tyre is too close to the right kerb,
Step 1 : Check for safety on the left and right, move forward and turn the steering wheel 2 rounds to the right to straighten the tyres.



Step 2 : Look through the rear windscreen for safety, reverse the car and turn the steering wheel full lock to the left. When the car body is almost parallel with the left and right kerb, straighten the tyres by turning the steering wheel 2 rounds back to the right. Stop when the side mirrors are in line with the kerb.



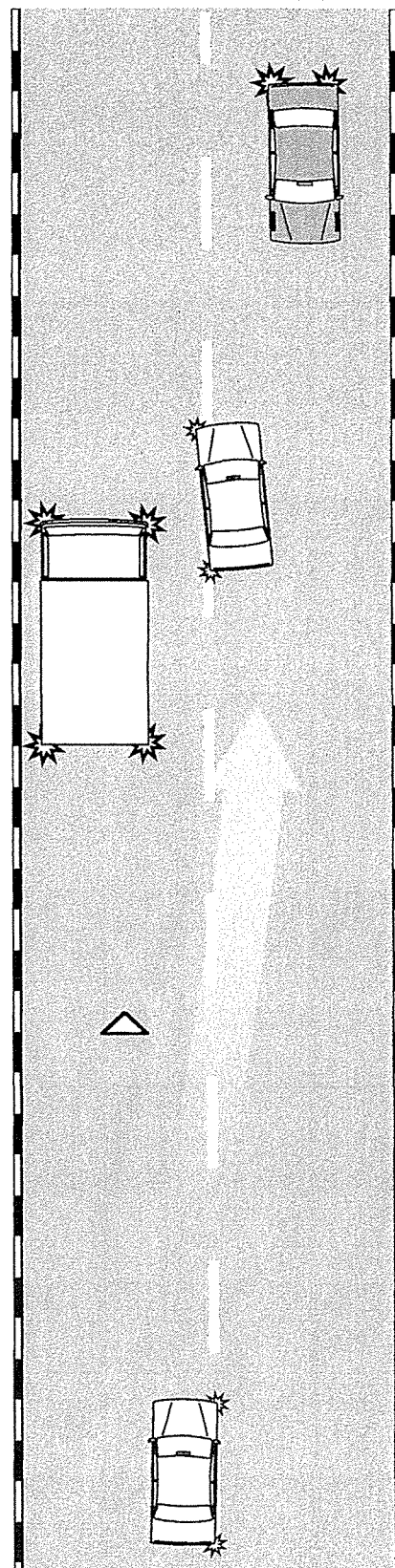


ANTICIPATION (FORWARD DRIVING)

CORRECT



INCORRECT



- FAIL TO SLOW DOWN WHEN
APPROACHING ROAD HAZARDS

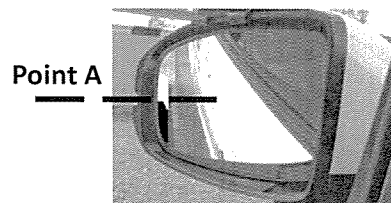
Parallel Parking

Reversing Into The Parking Lot

Step 1 : Signal left early. Position the car about 0.5 metres away from the kerb. Check through the rear windscreen and on the right for safety before reversing.

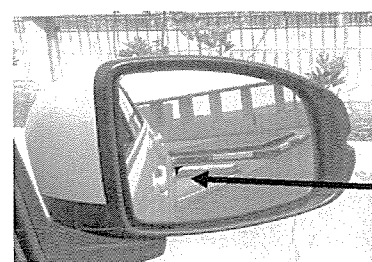
Adjust the left side mirror downwards to see the rear wheel and the kerb.

Step 2 : Reverse the car and turn steering full lock to the left when the rear left wheel is about 1 metres from the corner of the parking lot (**Point A**).



Ensure there's a clearance between the rear tyre and the corner of the kerb.

STEP 3 : When the right side of the car body is in line with the centre of the rear kerb (**Point B**) by looking at the right side mirror, turn back 2 rounds to the right to straighten the tyres.



Point B



Adjust the right side mirror downwards to see the rear tyre.

Step 4 : When the rear right tyre touches the yellow line (**Point C**), turn the steering full lock to the right.



Point C

Step 5 : Reverse the car further in and stop before the rear wheel touches the rear kerb. (Approx. 0.3m)



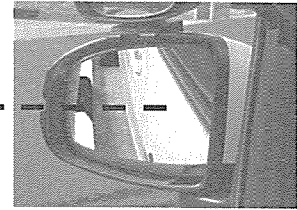
Step 6 : Move forward, straighten the car, the tyres and park the car in the centre of the parking lot.

Note: Sense the movement of the car to confirm the front tyres are straight. Do not assume the front tyres are straight by looking at the steering wheel position as it may differ by one round.

Parallel Parking

Moving Out of The Parking Lot

Step 1 : Move the car forward and stop when the left rear tyre is in line with the black and white mark (**Point D**) on the kerbside by looking at the left side mirror.



Step 2 : Check safety by looking through the rear windscreen before reversing. Turn the steering wheel at least 1 round to the left. Stop before the rear tyre touches the rear kerb.



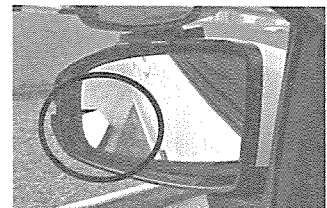
Step 3 : Check safety on the right, move the car forward and turn the steering wheel full lock to the right to move out of the parking lot.

Step 4 : Once the front left corner of the windscreen is in line with the kerb, turn the steering 2 rounds back to the left to straighten the tyres. Steer back accordingly to the left when the left corner of the windscreen reaches the centre of your lane to proceed on.



Check and ensure the rear left wheel does not hit the kerb by looking at the side mirror.

Adjust back the side mirrors to normal driving position before proceeding on.



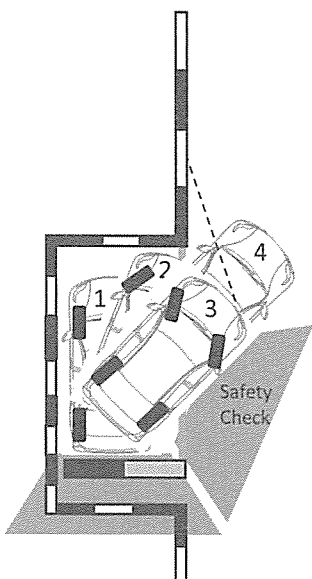
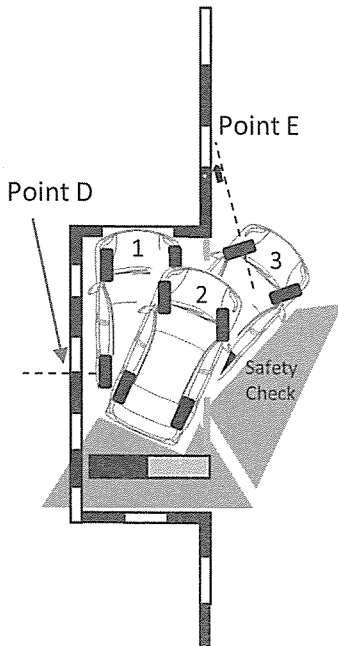
If too close to the left side of the kerb

Step 1 : Check safety by looking through the rear windscreen before reversing and stop before the rear tyre touches the rear kerb.

Step 2 : Check safety on the right, move forward and turn steering 2 rounds to the right. Stop before hitting the front kerb.

Step 3 : Check safety by looking through the rear windscreen, reverse and turn steering 2 rounds back to the left to straighten the tyres. Stop before the rear tyre touches the rear kerb.

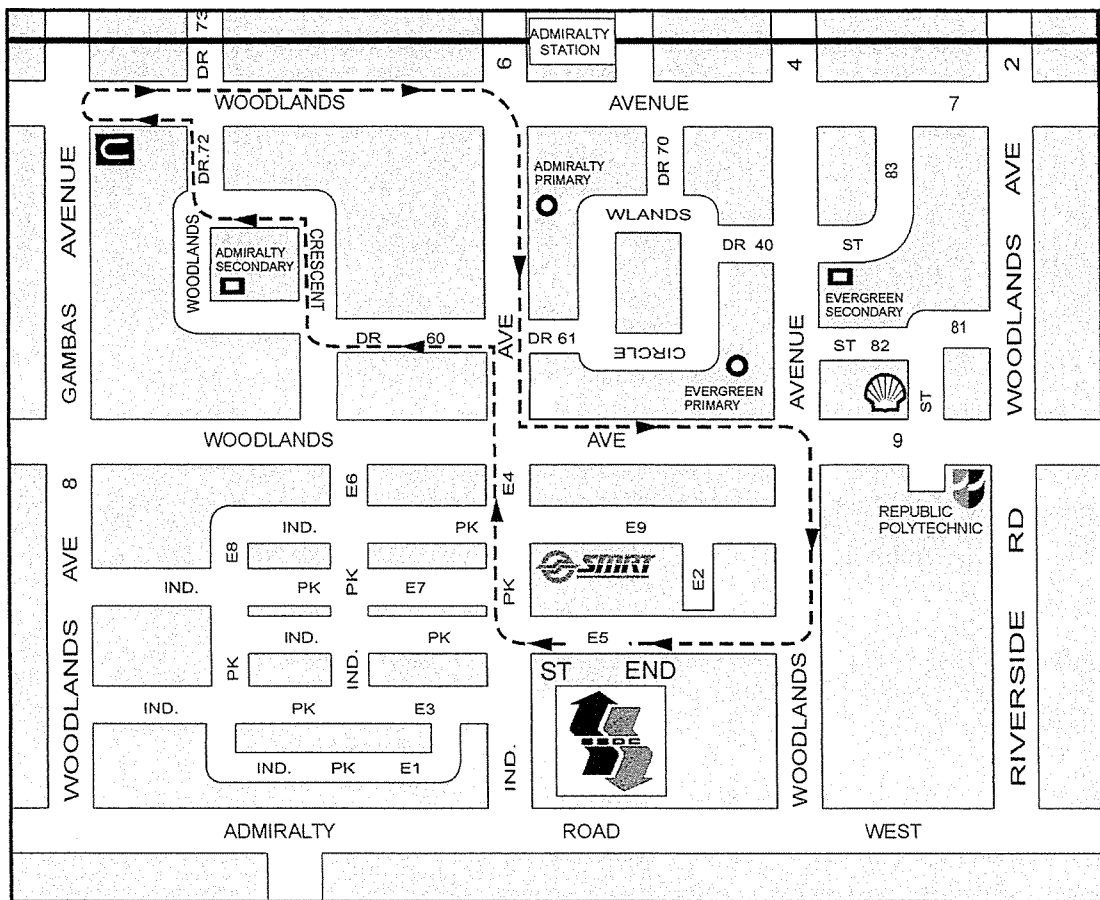
Step 4 : Check safety on the right, move the car forward and turn the steering wheel full lock to the right to move out of the parking lot. Once the front left corner of the windscreen is in line with the kerb, turn the steering 2 rounds back to the left to straighten the tyres. Steer back accordingly to the left when the left corner of the windscreen reaches the towards the centre of the lane. Check and ensure the rear left wheel does not hit the kerb by looking at the left side mirror.



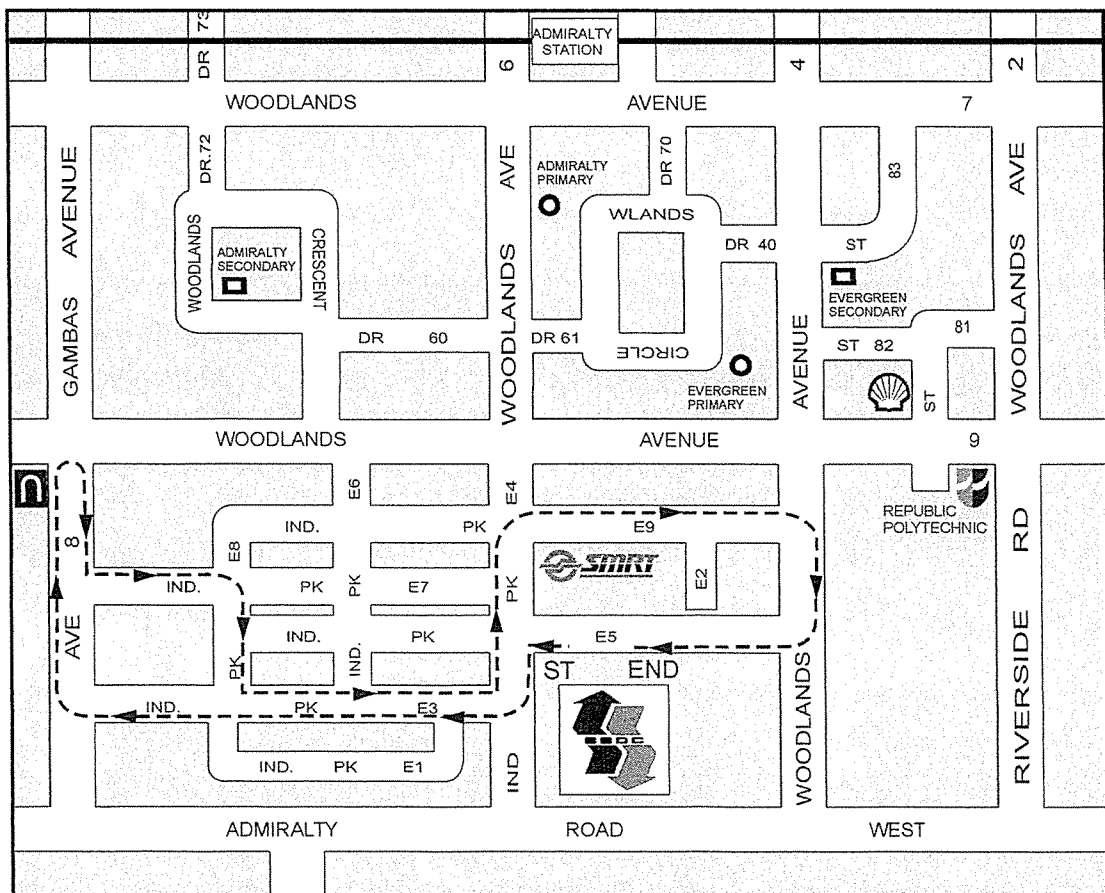


SINGAPORE SAFETY DRIVING CENTRE LTD

TEST ROUTE 1



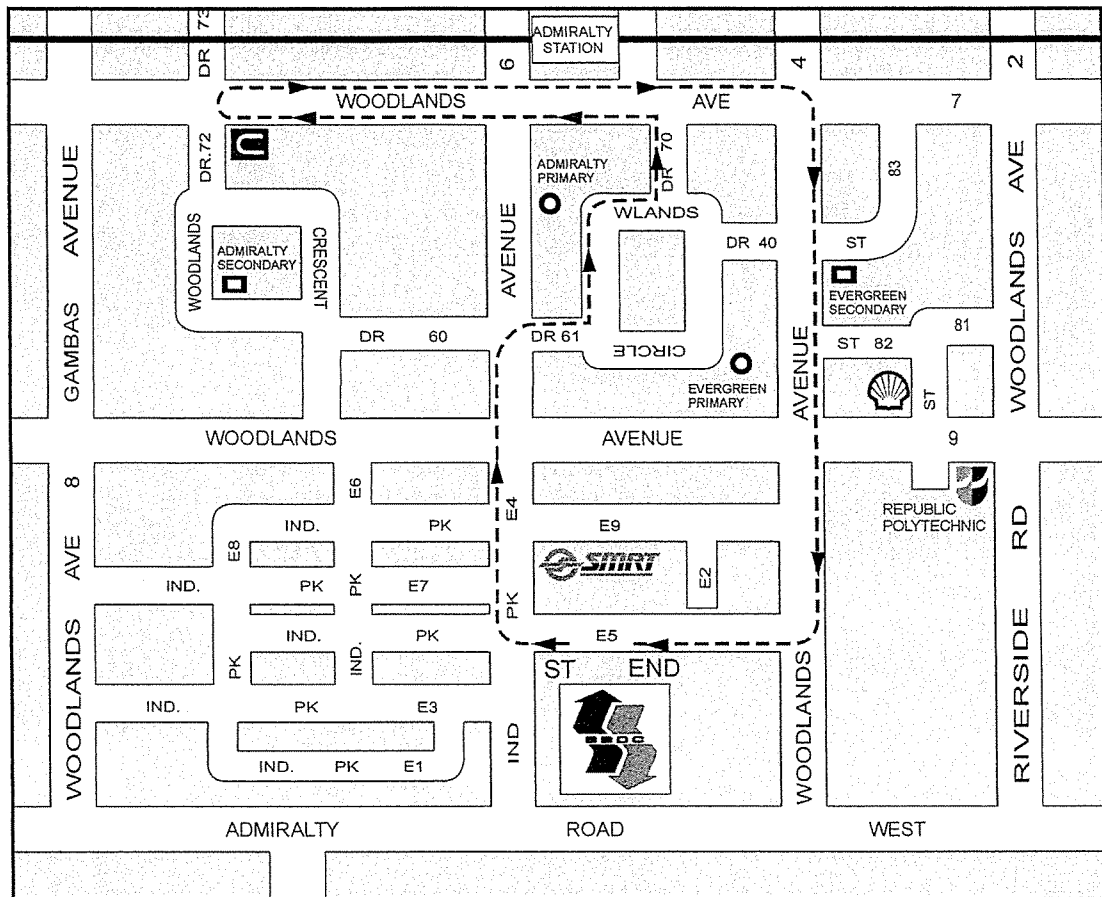
TEST ROUTE 2



[illegible][illegible]



TEST ROUTE 5



TEST ROUTE 6

