



# Theoretical Driving Course (TDC) for Student-driver's Permit Applicants



**Subject No. 3**

# Pre-Driving on Orientation and Motor Vehicle Basic Parts, Functions and Operations **(DL Code B, B1, B2)**

Subject Code: **TDC-15-S-03**



# Pre-Driving on Orientation and Motor Vehicle Basic Parts, Functions and Operations (DL Codes B, B1, B2)



## Topic Outline:

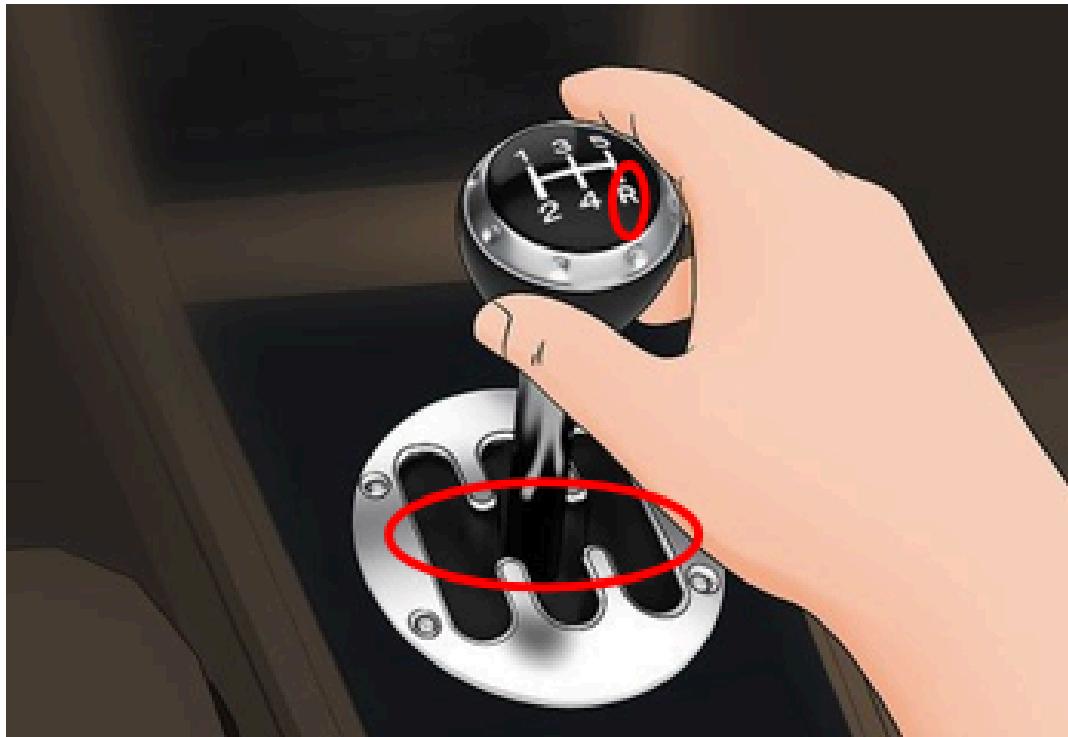
1. Classification of Motor Vehicles
2. Basic Functions of Identified Parts and Other Safety Features of Motor Vehicle
3. Walk Around Check of Identified Components
4. Pre-Engine Starting Routine
5. Driving Procedures
6. Tips on Stopping, Parking, Turning and Changing Lanes
7. Post Driving Routine



# CLASSIFICATION OF MOTOR VEHICLES



**Manual**



**Brakes**



**Drive**

**Park**

**Automatic**





# B, B1, B2 ESSENTIAL COMPONENTS – EXTERIOR



**Headlamps**



**Rear Signal Light**



**Front Signal Light**



**Brake Light**



**Hazard Warning Light**



**Reverse Light**



# B, B1, B2 ESSENTIAL COMPONENTS – EXTERIOR



**Plate Lights**

**Left and Right Side Mirrors**



**Windshield**



**Front and Rear Wipers**



# B, B1, B2 ESSENTIAL COMPONENTS – EXTERIOR



**Doors**



**Engine Hood**



**Luggage Compartment  
Hood**



**Fuel Tank Cap**



# B, B1, B2 – UNDERCHASSIS & Steering Wheel



**Tires**



**Engine and Transmission**



**Linkages and Joints**



**Muffler and Silencer**



**Rear Axle and Differential**



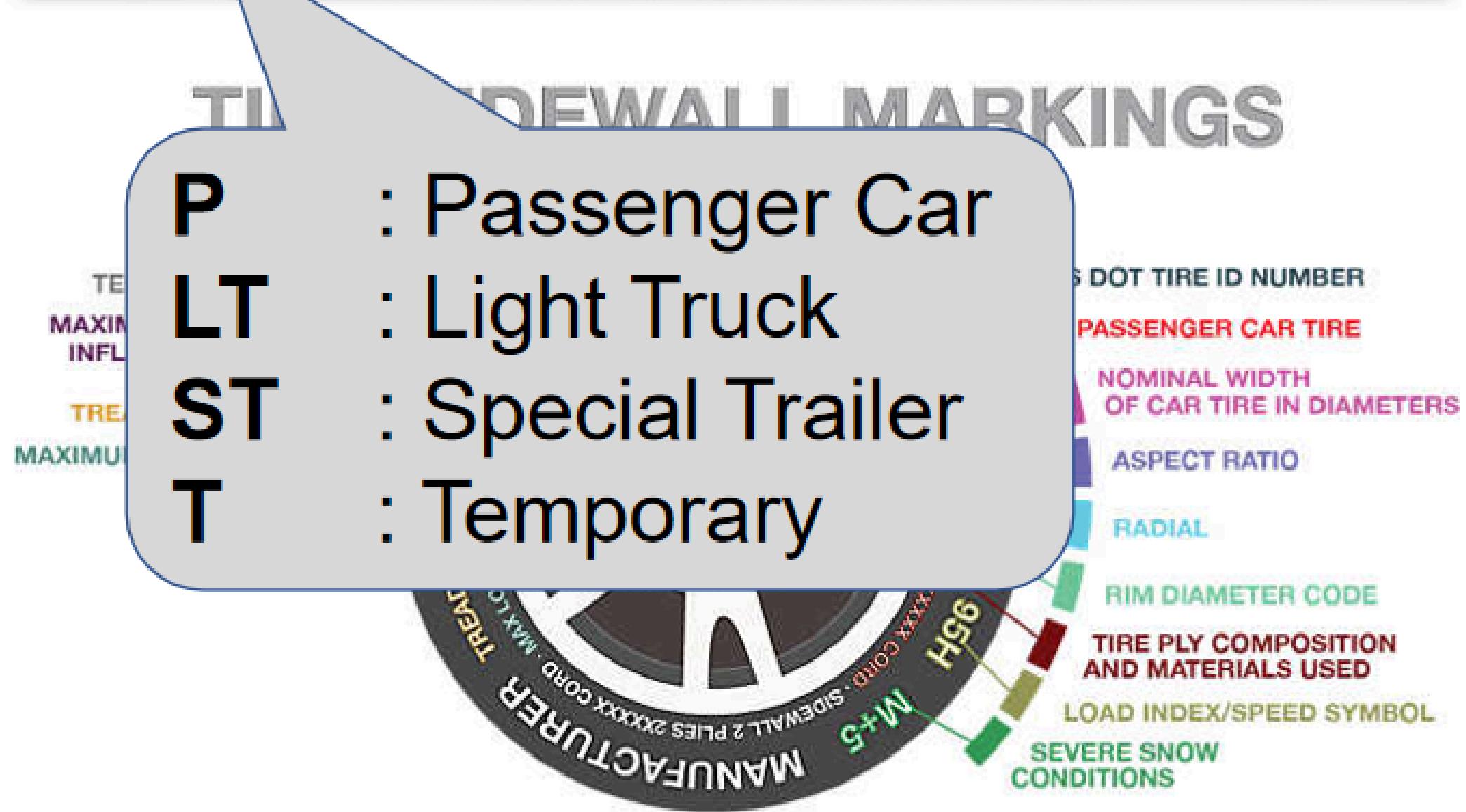
**Steering Wheel**



**Ignition Switch**



# TIRE - THINGS TO REMEMBER



Compatibility

Size

Condition

Life Span



# INTERIOR PARTS



**Headlight Switch**



**Wiper Switch**



**Child Lock**



**HORN**



**Power Window Switch**



**Parking Brake Lever**



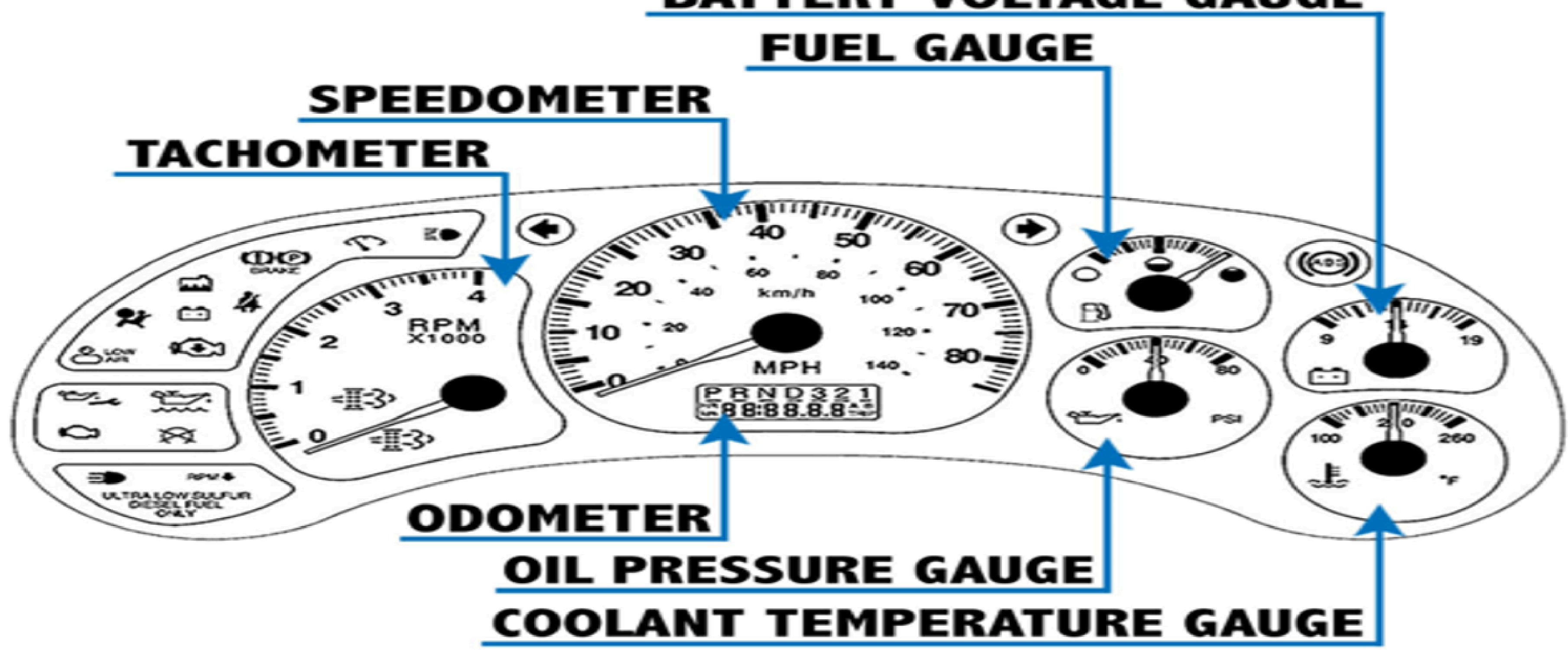
**Hazard Switch**



**Cabin Light Switch**



# DASH BOARD





# DASH BOARD



- BRAKE WARNING LIGHT



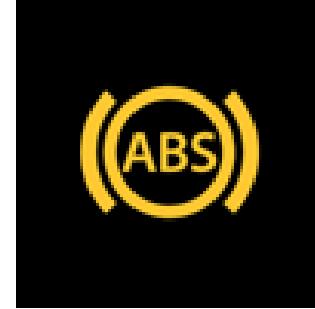
- AIR BAG WARNING LIGHT



- DOOR AJAR/OPEN



- OIL WARNING LIGHT



- ABS CAUTION LIGHT

- SEAT BELT WARNING LIGHT



- COOLANT WARNING LIGHT



- BATTERY WARNING LIGHT



- HAZARD WARNING LIGHT





# OTHER SAFETY FEATURES

## Seat Belts



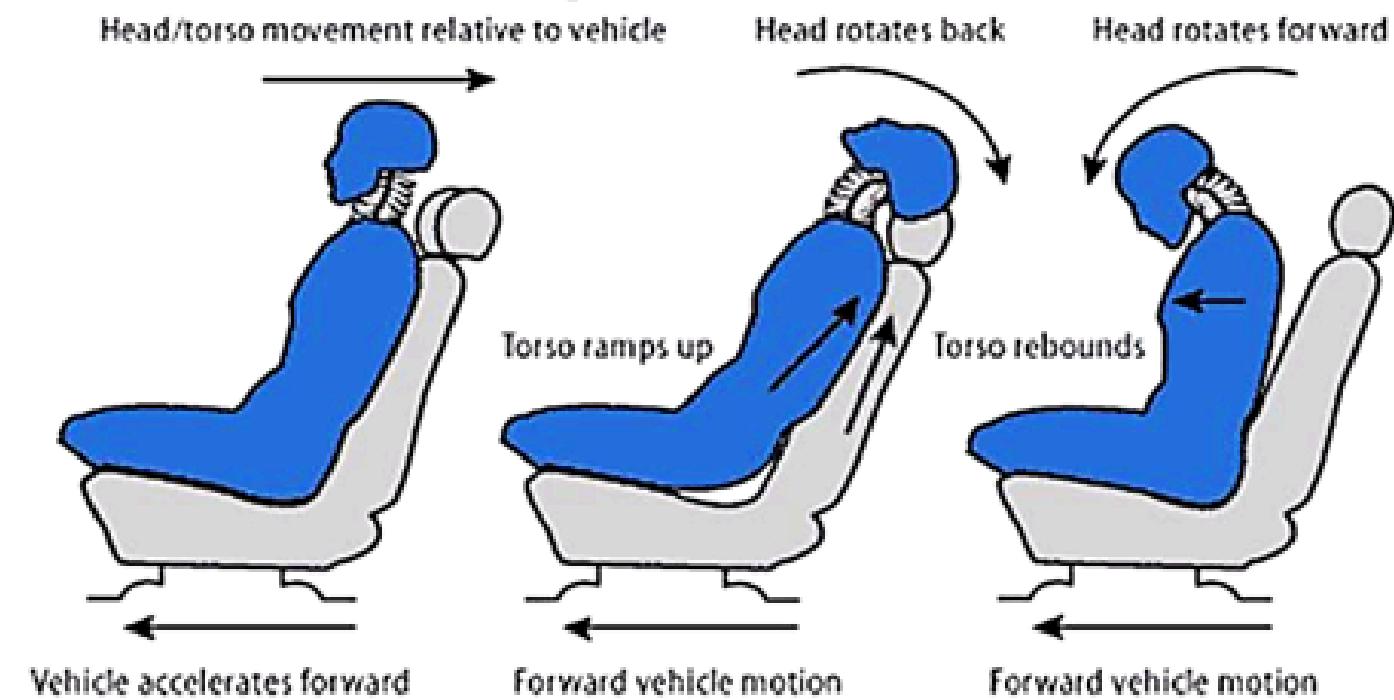
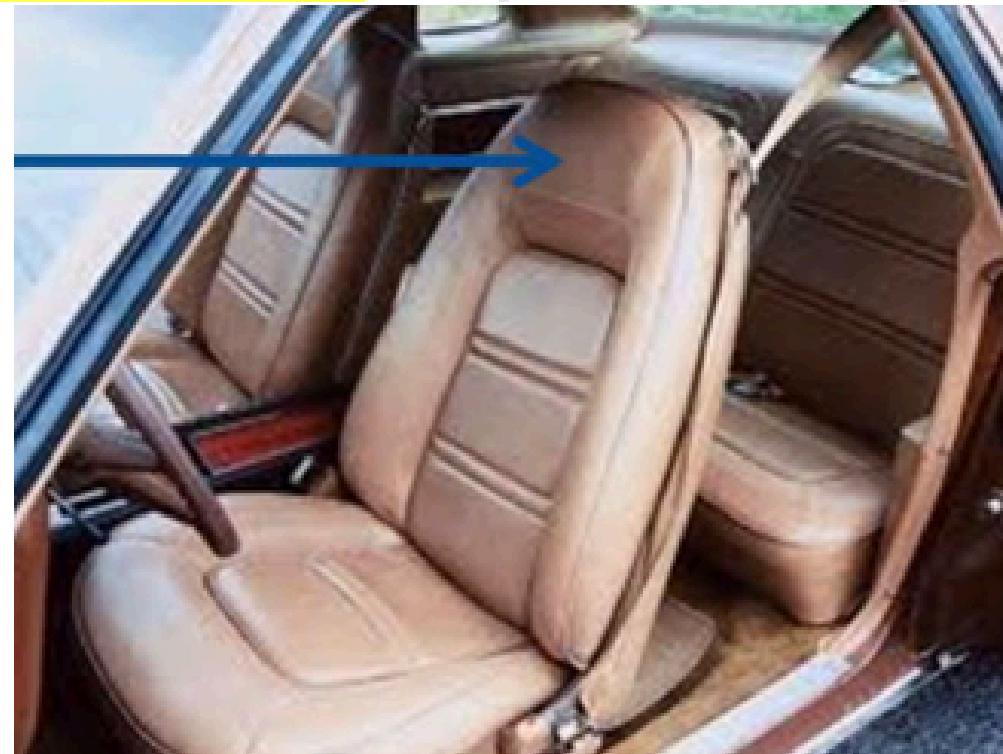
## Air Bags



## Child Restraint and Window Lock



## HEAD RESTRAINTS- helps in the prevention of whiplash





# MAKE READING A HABIT



**Significance of  
Reading the  
Vehicle's  
Manual: The  
Safety Pre  
Driving Method**



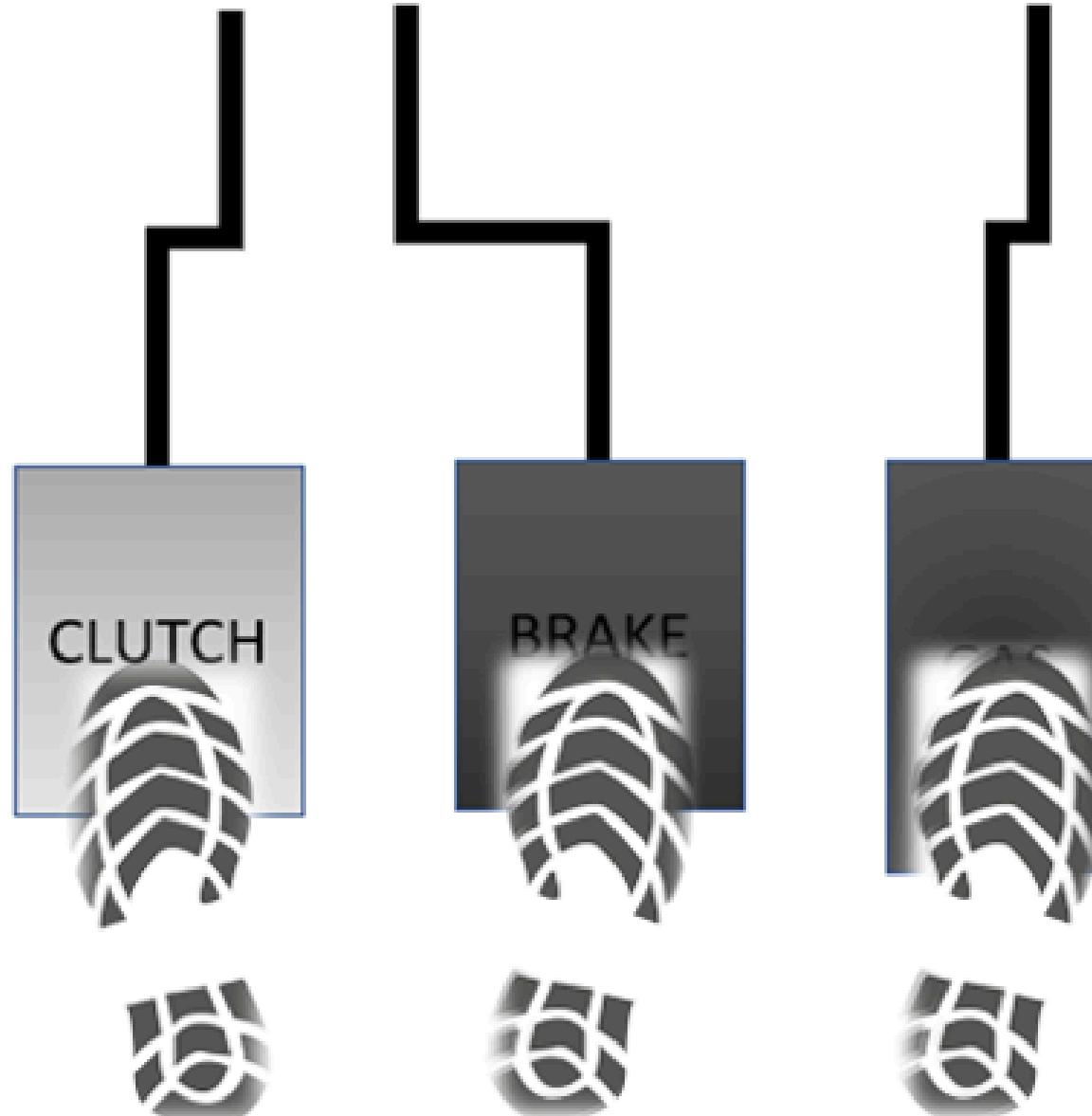
# READ! READ! & READ!

- Adjust the mirrors ( rear and side view)
- Adjust the seat and head restraints
- Wear your Seat Belt
- Reach the accelerator, brake and clutch pedal with your foot to check for comfortable distance
- Clear the windshield and windows of distracted items
- Close and lock the doors
- Switch 'ON' the ignition by turning clockwise
- Start the engine



# MOVING MANUAL CLUTCH

- Fully press the clutch and brake pedals
- Shift the lever to 1<sup>st</sup> gear (avoid shifting to 2<sup>nd</sup> gear)
- Release the Parking Brake Lever
- Slowly release the clutch pedal while simultaneously pressing gas. The driver will feel a very slight vibration indicating that engine and transmission are already engaged.
- Take a quick look of the vehicle's path. Press the brake and clutch pedals if there is obstruction.
- The vehicle will slowly move.
- Gently press the gas pedal and completely release the clutch.



# SHIFTING GEAR

SHIFTING GEAR DEPENDS  
ON:

- SPEED
- ENGINE RPM
- CAPABILITY OF THE VEHICLE
- TYPE OF ROAD (LEVEL, UPHILL, DOWNHILL)
- WEATHER CONDITION
- DRIVING SKILL

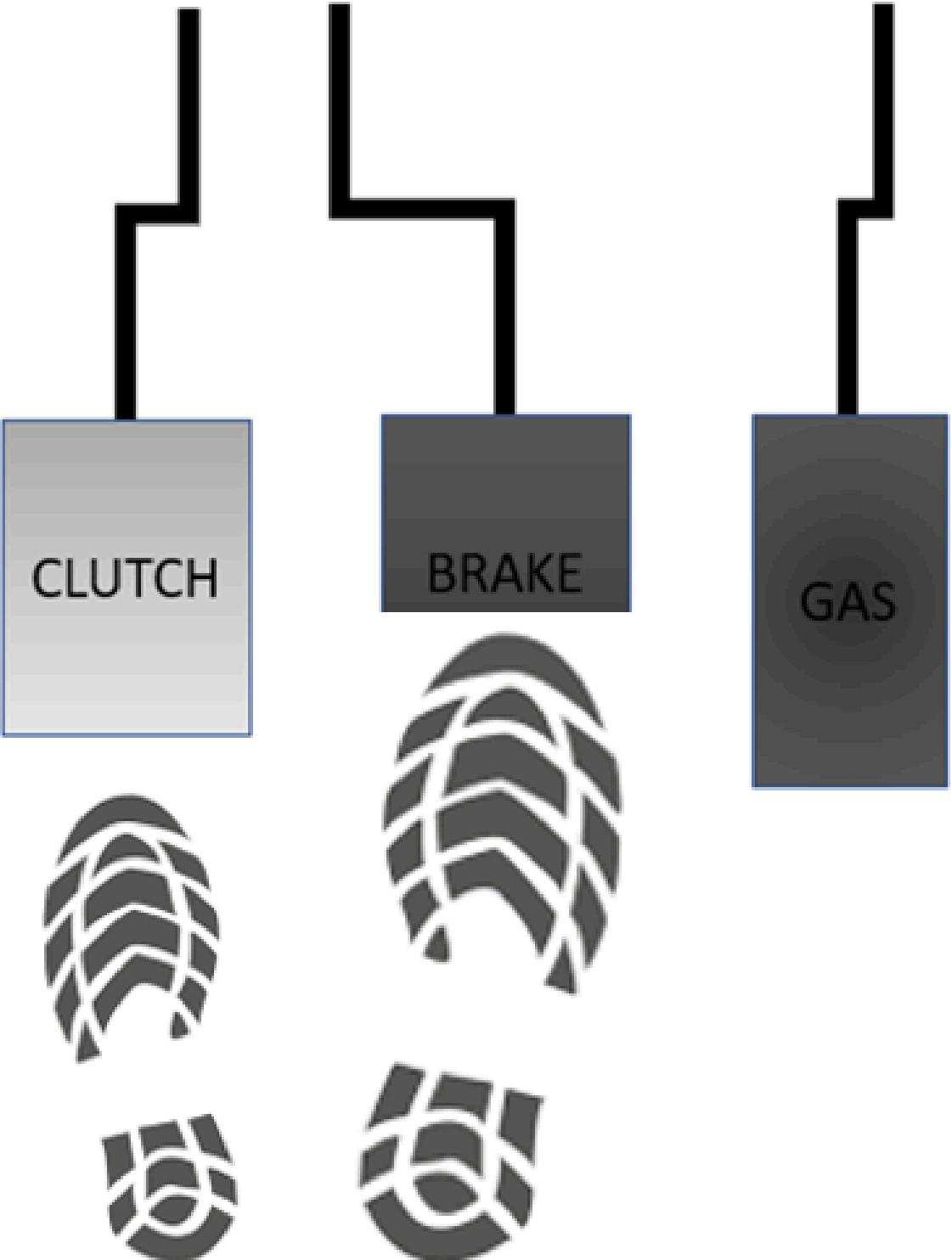


THE HIGHER THE GEAR,  
THE FASTER THE VEHICLE

# BRAKING

As much as possible, STEP ON THE BRAKE PEDAL FIRST.

STEPPING ON THE CLUTCH FIRST WILL DISENGAGE THE TRANSMISSION AND ENGINE. IN EFFECT, THE GEAR SELECTOR WILL BE IN NEUTRAL POSITION. THEN THE VEHICLE WILL ABRUPTLY SLIDE.

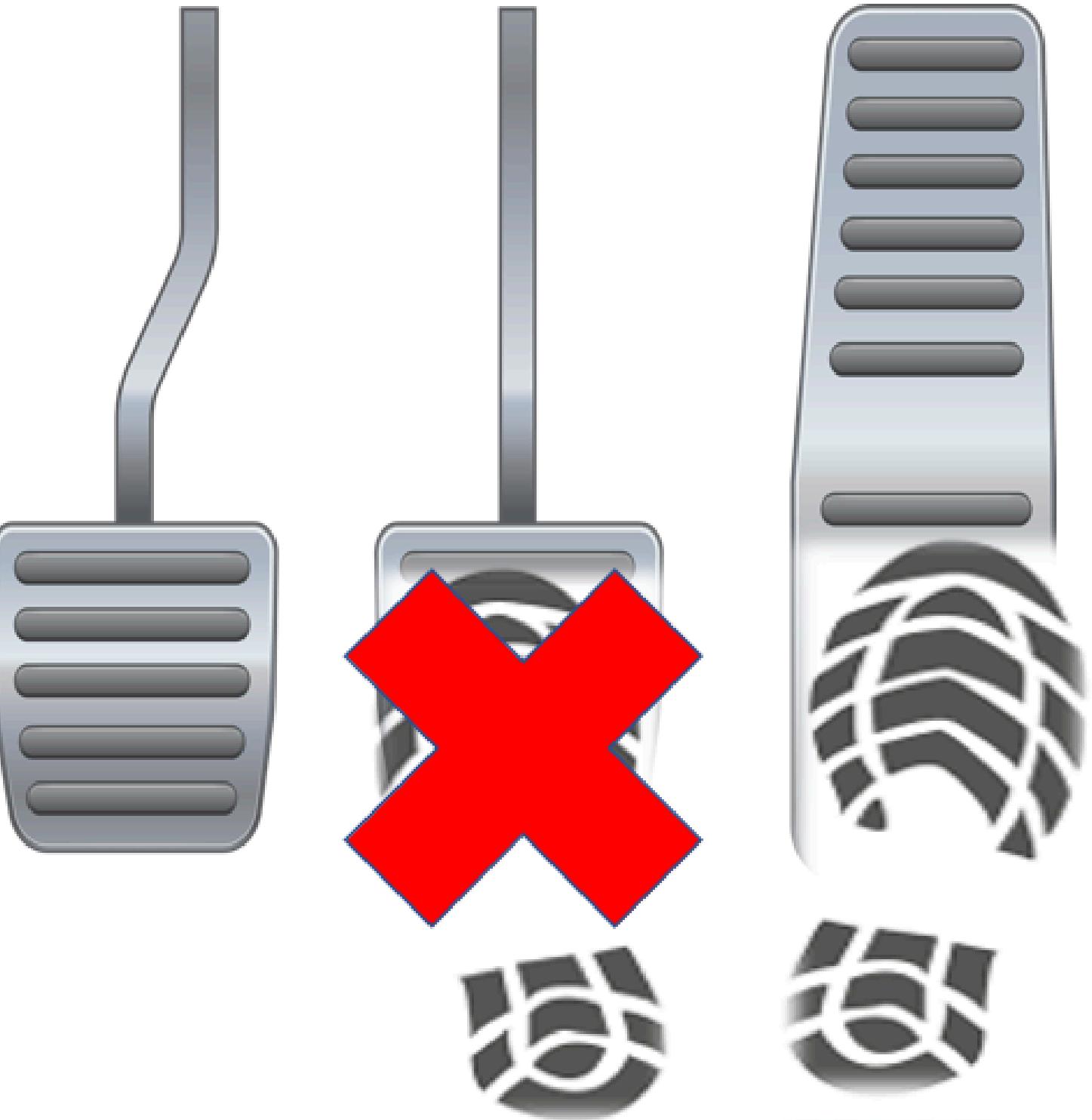




# REMEMBER!!



**NEVER USE THE  
LEFT FOOT FOR  
BRAKING !!!!**

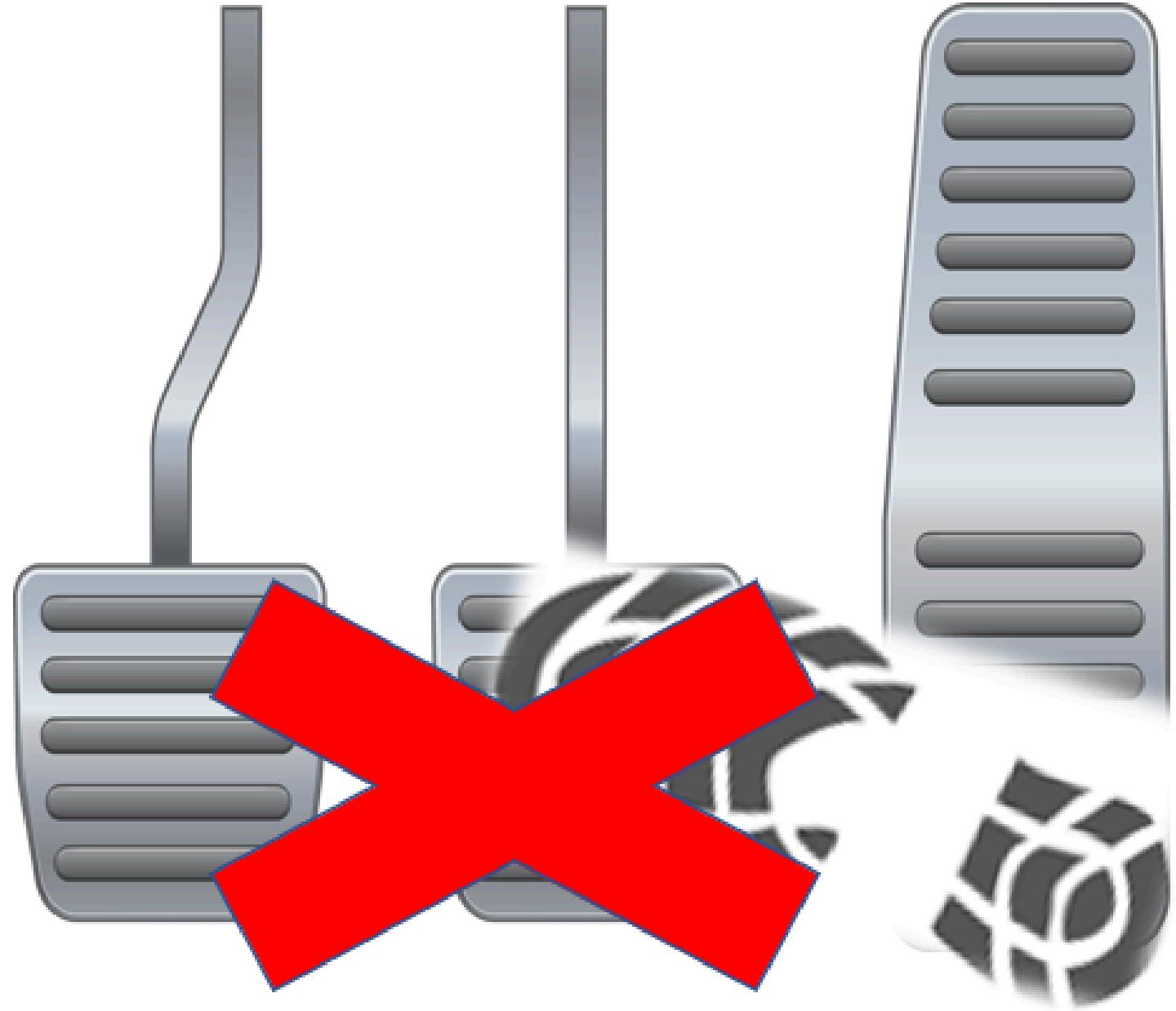




# REMEMBER!!



**AVOID PRESSING  
THREE PEDALS  
AT A TIME**





# REMEMBER!!



**CORRECT  
BRAKING WHILE  
THE VEHICLE IS  
SLOWLY MOVING**





# STEERING WHEEL

**Steering**- To control a vehicle's direction of travel

- ❖ Hand Position  
9 o'clock & 3 o'clock / 10 o'clock & 2 o'clock
- ❖ Tracking

## Hand to Hand

### Turning Left

Starting hand position



Left hand pulls down  
Right hand stays

Left hand stays  
Right hand pulls down



Left hand slides up  
Right hand pulls up

Right hand pulls up  
Left hand slides up



Left hand pulls down  
Right hand slides down

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### Turning Right

Starting hand position



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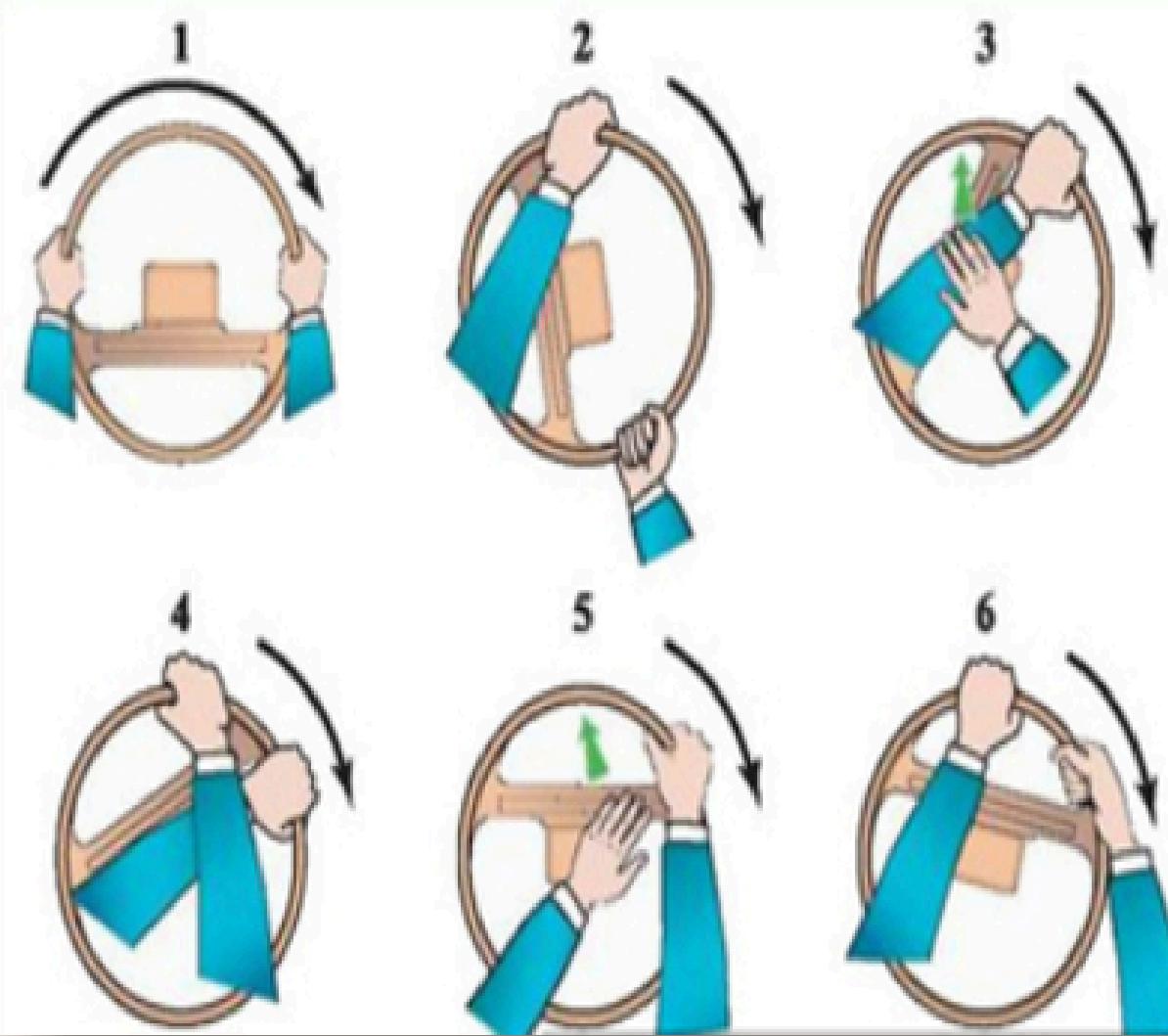
Right hand slides up  
Left hand pulls up



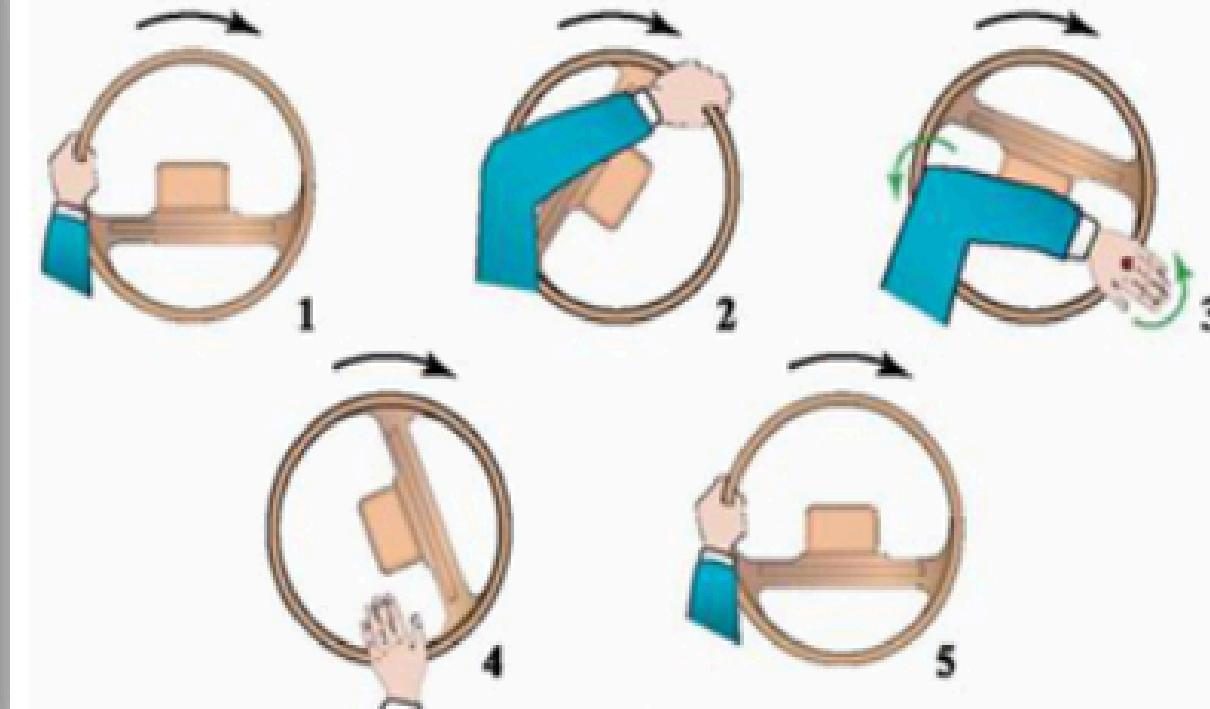
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## Hand over Hand



## One hand





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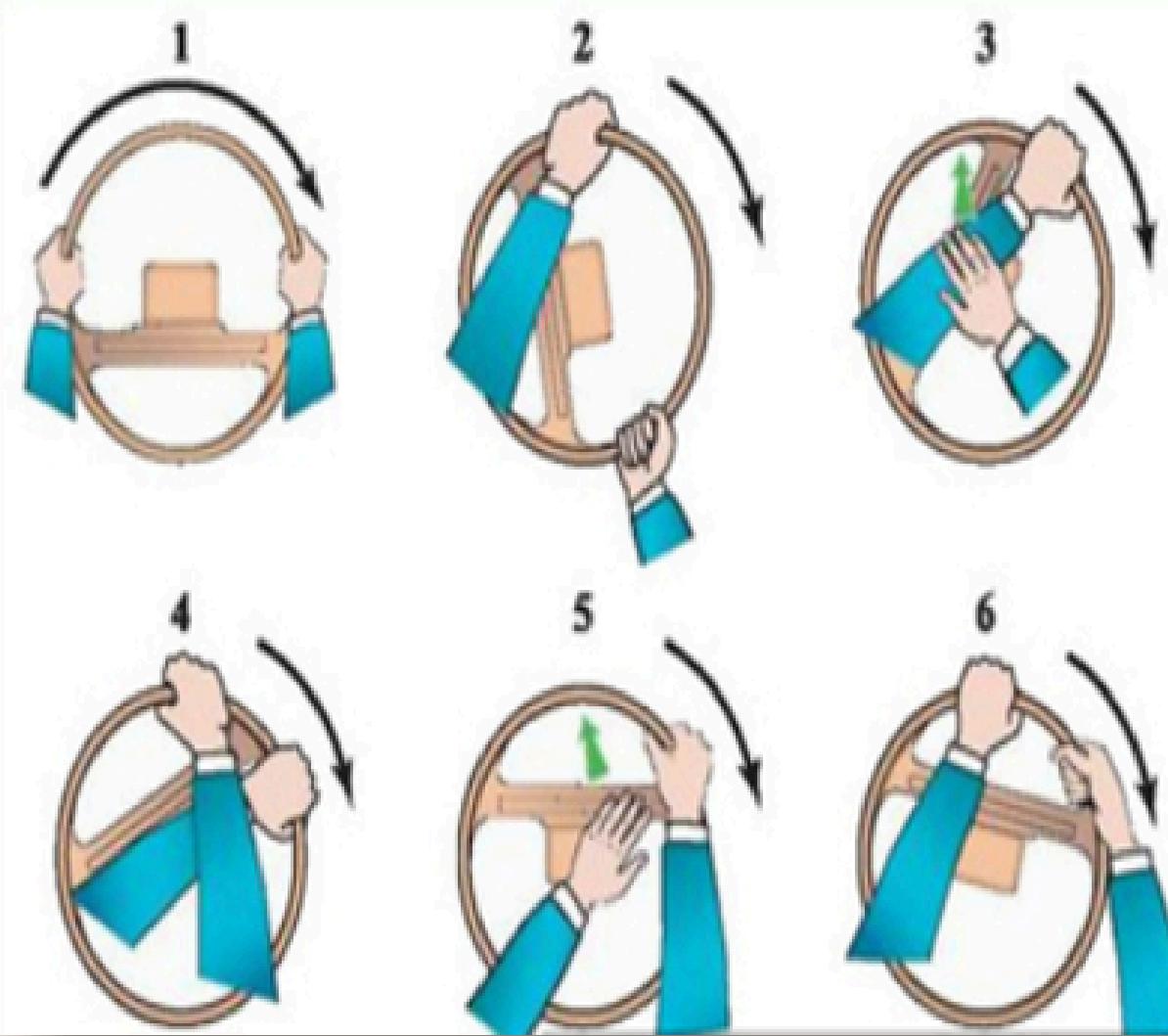
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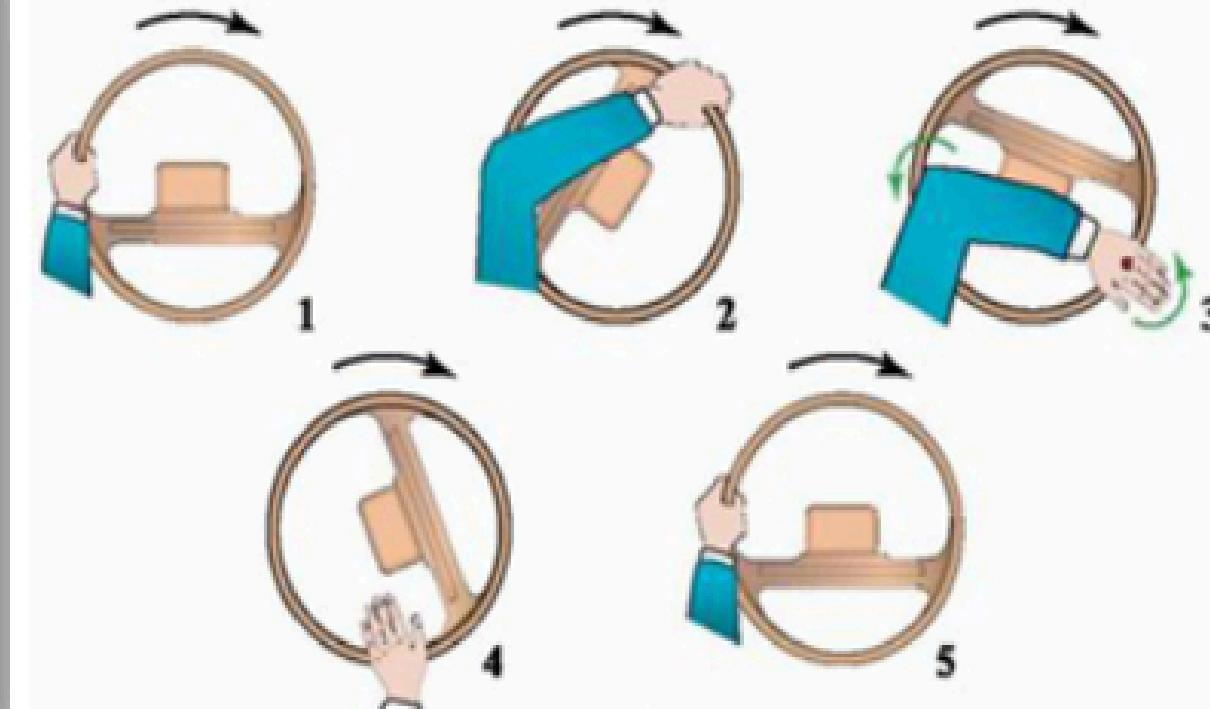
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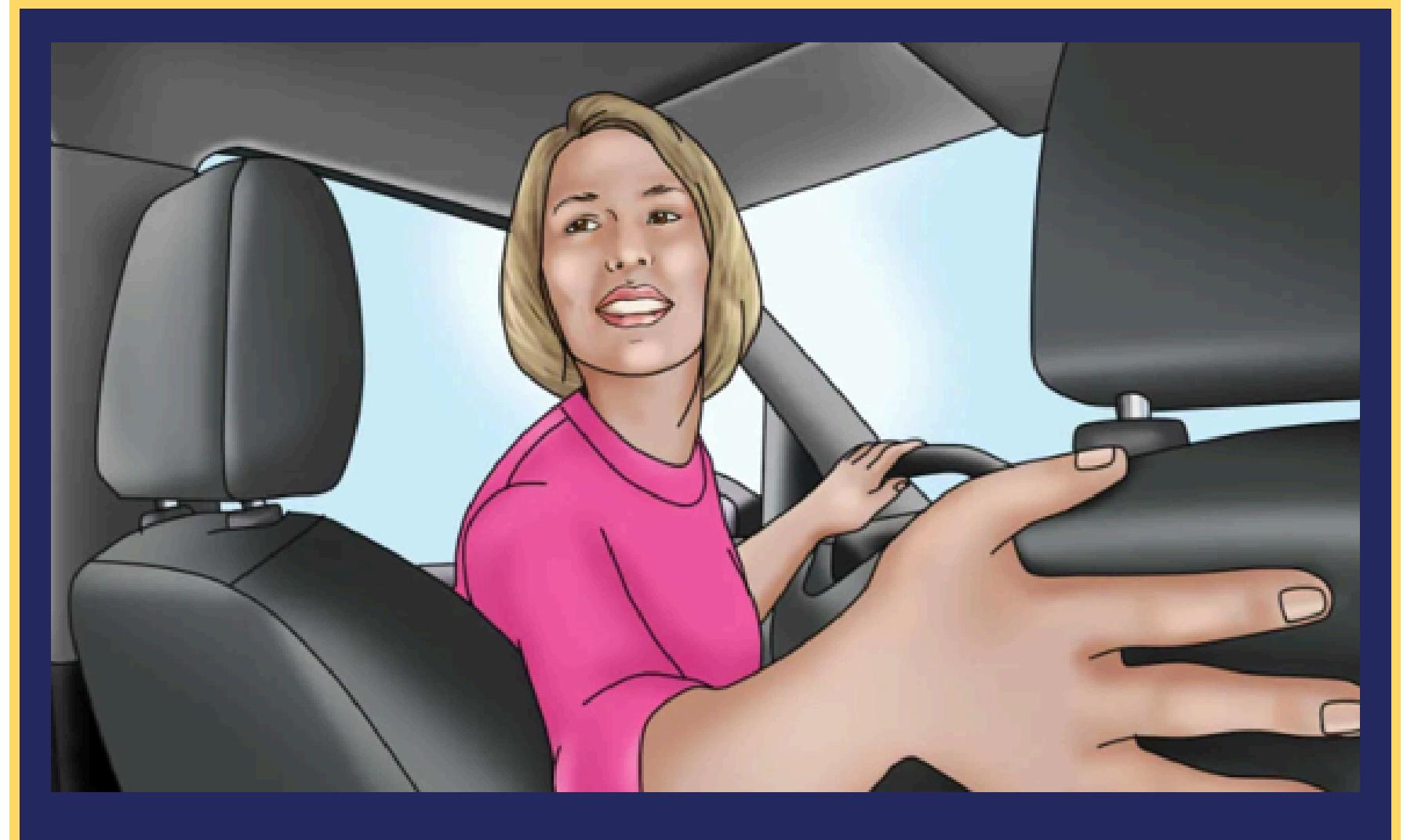


# REVERSING



Press the Brake and shift to Reverse

- Turn body to the right and look backwards
- Put left hand on the top of the wheel. 12:00 o'clock position
- Release pressure from the brake while slowly releasing clutch pedal just enough move the vehicle slowly
- Turn the steering wheel towards the desired location
- Keep foot over the brake at all times while checking traffic





# STOPPING AND PARKING



- Slowly take your right foot off the accelerator pedal and transfer it to the brake, pushing the brake pedal gently
- Just before the car stops, push the clutch pedal with your left foot (manual car)
- Bring the car to a smooth stop
- Put the car in neutral (manual) or park (automatic), keeping your foot on the brake.
- Put the handbrake or park brake on, release your foot from the brake and turn the engine off



# PARKING – NOSE IN

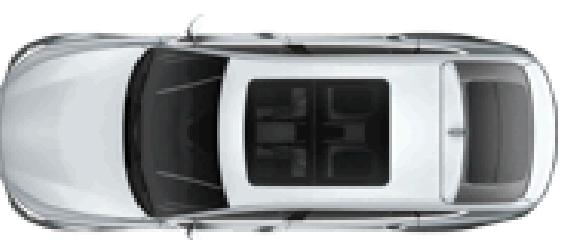
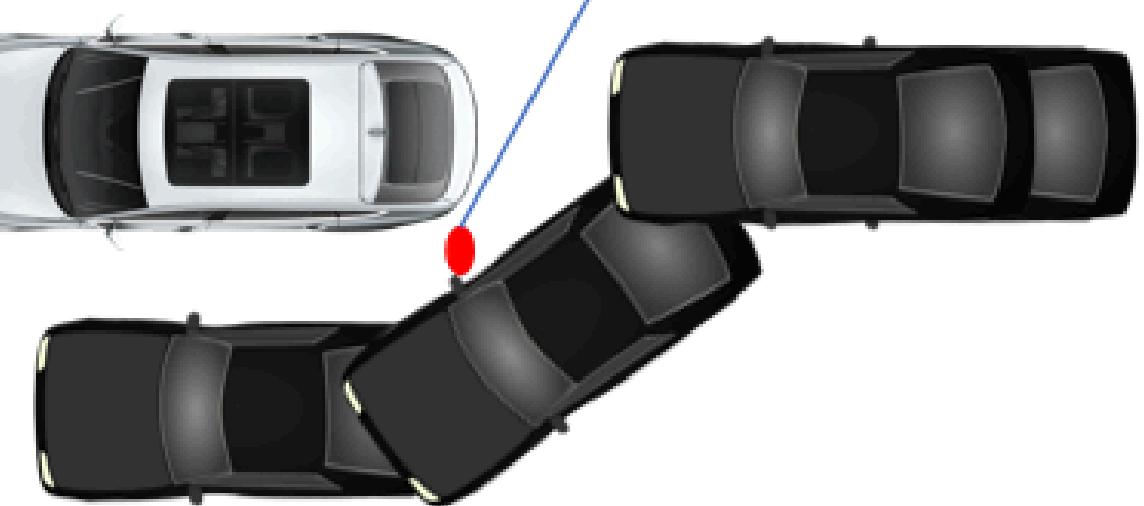


Without  
enough  
maneuvering  
space

# PARKING – PARALLEL

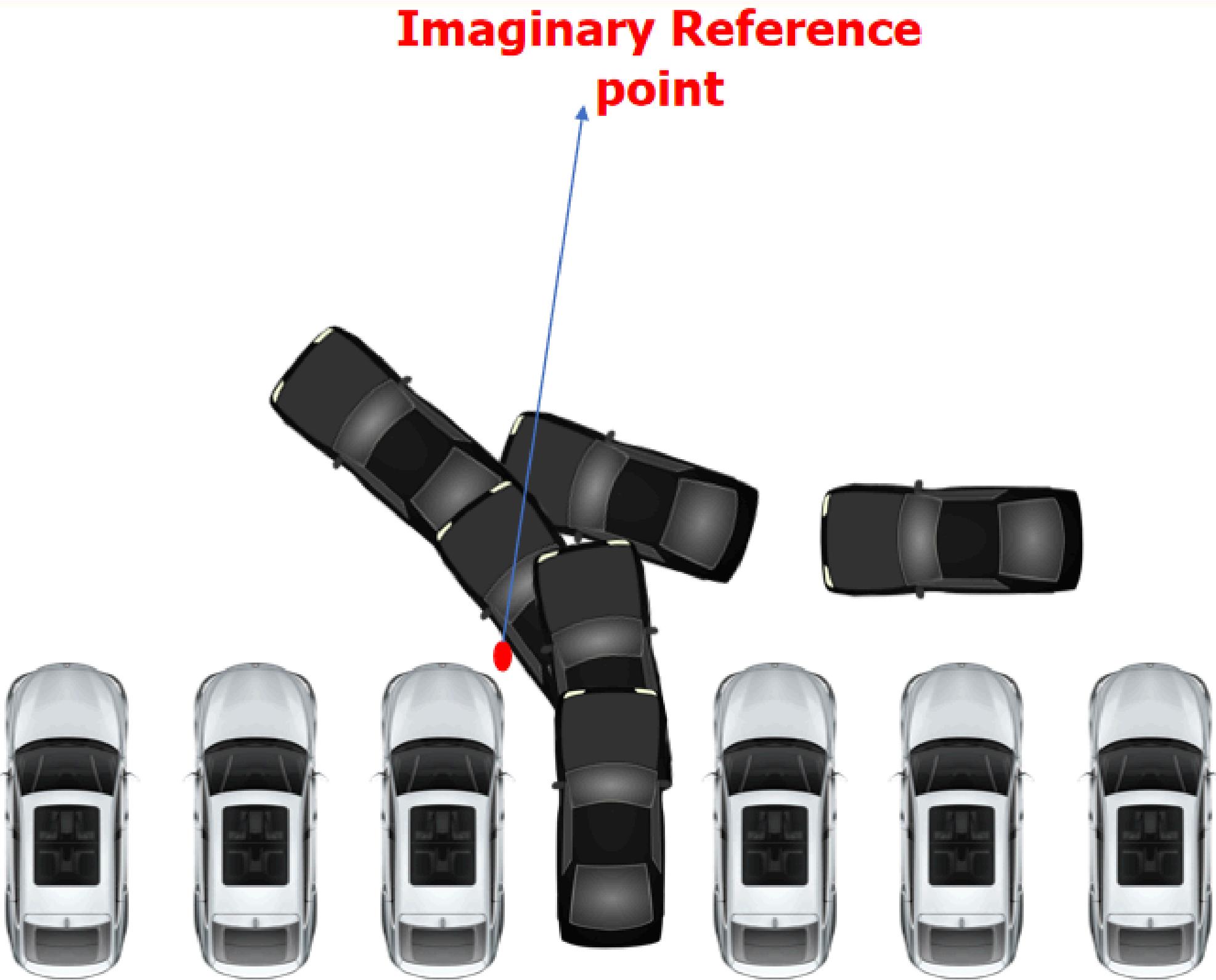
- Pull up alongside the vehicle
- Rear bumper to rear bumper
- Turn wheel sharply to the right and begin to back up
- Aim car to the rear right corner of the parking space
- When your steering wheel is even with the front vehicle's rear bumper, straighten out
- Keep looking behind you but make repeated glances to make sure your front bumper is clear

**Imaginary Reference point**



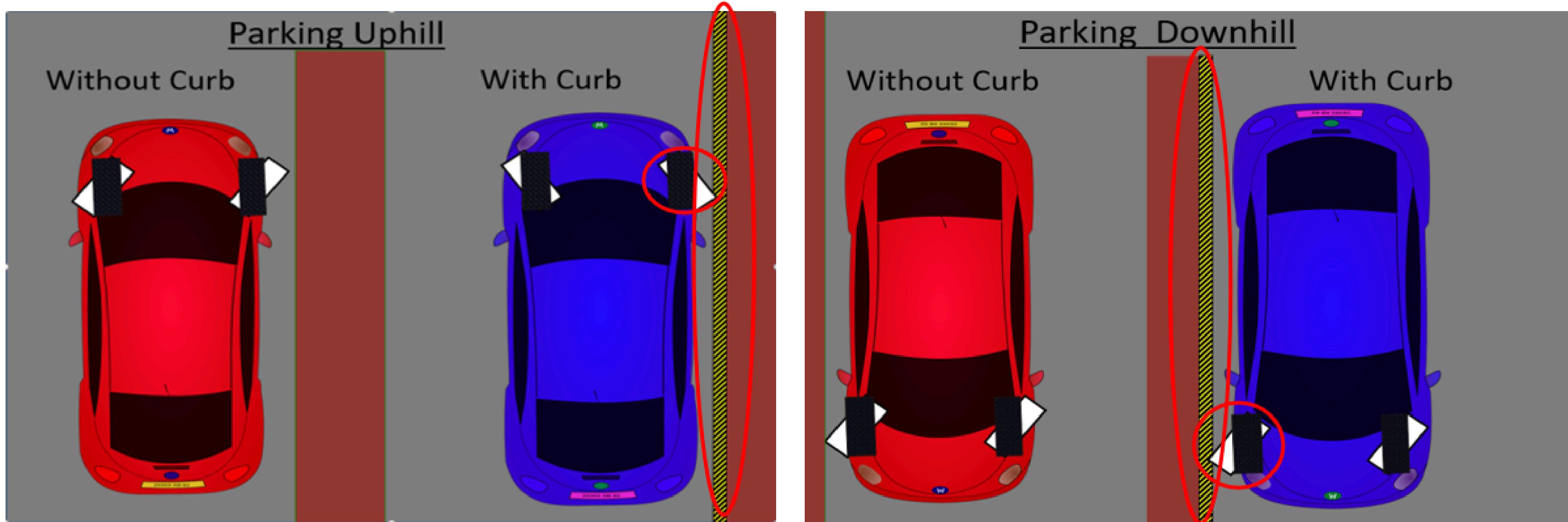


# PARKING – REVERSE





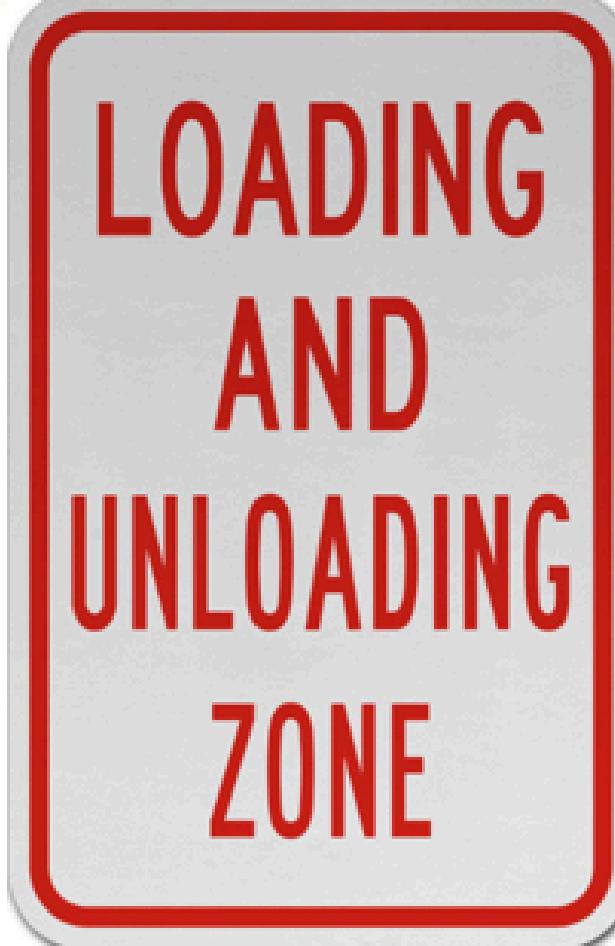
# PARKING – UPHILL OR DOWNHILL



MAIN OBJECTIVE – THE VEHICLE WILL NOT MOVE TO THE CENTER OF THE ROAD IN CASE OF PARKING BRAKE OR GEAR MALFUNCTION



# LOADING AND UNLOADING



- Load or unload passengers or cargo at a designated zone only
- Check and double check all mirrors before opening the door
- Allow adult passengers to alight first
- If it will cause obstruction or inconvenience, press the hazard warning light
- Avoid further communication after unloading passengers
- Be sure that doors are properly closed after unloading passengers
- Switch the turn signal and check the mirrors before moving off



# POST DRIVING ROUTINE



- DOCUMENTS AND BELONGINGS
  - GADGETS
  - PASSENGERS
- SWITCHES AND CONTROLS
  - IGNITION KEY
  - LOCKS
- WALK AROUND CHECK



Remember!!!





**THANK YOU  
DRIVE SAFELY!**