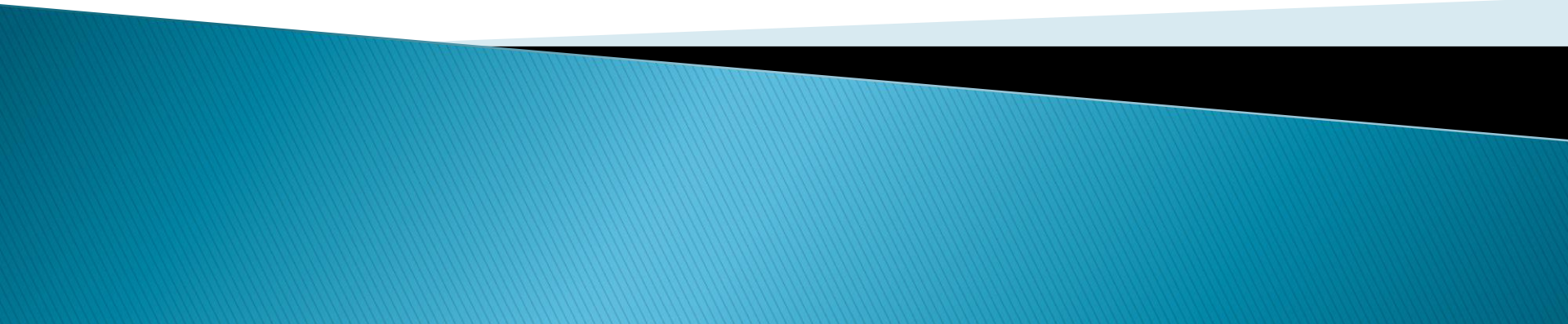


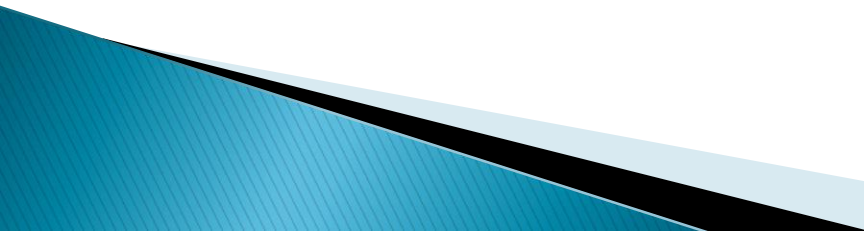
# Planning Your Travel

## Chapter 18




# Environmental Concerns

## 18.1

- ▶ When a car produces exhaust, it also produces chemicals that deplete the ozone layer, thus reducing Earth's natural defenses against the sun's harmful UV rays.
  - ▶ Important to maintain vehicle's emissions to decrease amount of pollution they produce.
  - ▶ On-Board Diagnostic(OBD) system: diagnostic tool for recognizing malfunctions, and also stores important information about the problems
- 

# Drivers Can Help

- ▶ Drive 55 mph instead of 65 mph to improve gas mileage by 15 percent.
  - ▶ Inflate tires properly to improve gas mileage by about 3 percent
  - ▶ Receive maintenance checks and engine tune ups regularly
  - ▶ Repair all vehicle leaks promptly
  - ▶ Fill the gas tank during cooler evening hours to minimize evaporation
  - ▶ Avoid spilling gas a do not “top off” the tank.
- 

# Local Travel

## 18.2

- ▶ Before you drive
  - Is this trip needed?
    - Combine trips into one
  - Do I have enough time?
    - Allow extra time for delays caused by bad weather or heavy traffic

## ▶ Planning Process

- Prepare your vehicle and know your route and destination before leaving.
- Routine check every time you fill up
- Write down directions and have a map
- Listen to local weather and traffic reports before your trip

# Long Distance Travel

## 18.3

- ▶ Electronic Resources
  - Global Positioning System (GPS)
    - Satellites transmit radio signals to GPS
  - Internet
    - Mapquest/google maps

# Print Resources

## ▶ Maps

- Legend: explains the markings and symbols used on the map. Ex, types of highways and roads, symbols for cities and towns, points of interest, etc.
- Index: alphabetical list of cities or roads with alphanumeric coordinates used for finding the city or road on the map

## ▶ Calculating Distances

- The # between any two mileage markers represents the distance in miles between those two points.

## ▶ Using the index

- Locations are identified by letter and number. Ex, J3
- Find the point at which a letter and number meet to see the location of that site on the map.



# Vehicle Preparation

- ▶ Vehicle check
  - Brake system
  - Exhaust
  - Steering/suspension system
  - Fluids (oil, engine coolant, power-steering fluid, brake fluid, windshield washer fluid)
  
- Emergency equipment
  - Extra fluids for vehicle
  - Fire extinguisher
  - First aid kit, flares or reflectors, flashlight
  - Jumper cables or battery charger
  - Mechanic's gloves and basic tools

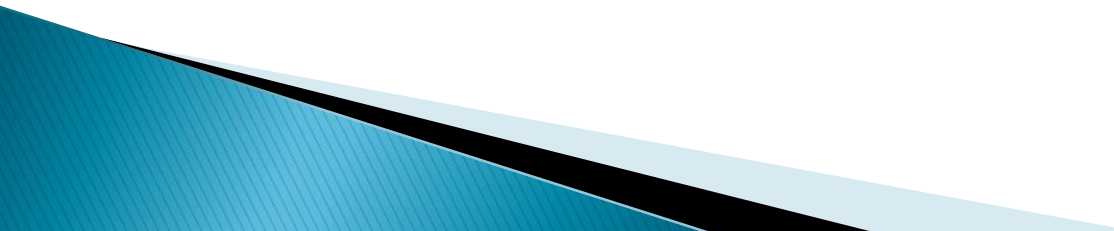
## ▶ Winter-Driving Equipment

- Blankets, sleeping bags, additional warm clothes
- Tire chains or all weather tires with good tread
- Plenty of water and no-prep foods. Ex, granola, nuts, dried fruit, energy bars
- Window ice scraper
- Tow line and sand bags

## ▶ Weight Check

- Added weight will increase your fuel consumption

## ▶ Personal Preparation

- Do not drive while tired.
  - Drive during the day if possible.
  - Take regular breaks about every 2 hours. Rotate drivers.
  - Keep fresh air circulating in the vehicle at all times
  - Eat light and frequently; large meals consisting of fatty foods can cause drowsiness
  - Maintain your focus on driving. If you need a map pull over.
- 

# Special Vehicles and Trailers

## 18.4

- ▶ Recreational vehicle/RV
  - Limited vision
  - Backing
  - Maneuvering
  - Crosswinds
  - Remember your size
  - Following distance
  - fatigue

## ▶ Trailers

- Equipment
  - Trailer hitch
  - Safety chain
- Pre-Departure Equipment Check
  - Brakes, lights, drive train, tire pressure
- Load
  - Heavy items over the axle
- Backing
  - Pull straight forward to re-align if having problems
  - Have someone guide you or use your outside mirrors

## ▶ Towing Techniques

- Increase your following distance
- Travel at or below the speed limit
- Make wide, slow turns at curves and corners
- Slow down whenever approaching a turn or a bed in the road
- If start to fishtail steer straight toward your target with your foot off the accelerator
- Allow at least twice the normal stopping and passing distance
- Use a low gear when going up or down steep hills
- Be ready to slow or adjust steering for crosswinds
- Never allow passengers to ride in or on trailer