

# REMOVING TRANSMISSIONS



There are many physical hazards related to removing transmissions, including electrical shock, slippery floors, sharp edges, falling debris, noise and weight.

## Hazard: Slippery Floors

### Details

- Created by transmission and other fluids

### Threat

- Falls

### Safe Work Guidelines

- Wear CSA-approved safety boots with slip-resistant soles
- Immediately place absorbent material on spills

## Hazard: Sharp Edges

### Details

- Present on a damaged car

### Threat

- Cuts, bruises

### Safe Work Guidelines

- Take the time to use the right tools for the job at hand
- Wear leather gloves to protect against sharp edges and rusted or broken parts

## Hazard: Dirt and Debris

### Details

- Can fall from the underside of the vehicle

### Threat

- Eye injuries

### Safe Work Guidelines

- Wear safety glasses or goggles that are CSA approved for the job when working under a vehicle to protect your eyes from rust, engine coolant and anything else that can fall from the bottom on the vehicle

## Hazard: Noise

### Details

- Noisy tools (e.g., impact tools) can be louder than 90 dB

### Threat

- Hearing damage, deafness

### Safe Work Guidelines

- Wear appropriate hearing protection and make sure that other workers near you are wearing hearing protection

## Hazard: Falling or Moving Vehicle

### Details

- Vehicles and parts that are not properly supported or attached can slip and fall or move

### Threat

- Serious injury or death

### Safe Work Guidelines

#### Before You Start

- Wear CSA-approved safety shoes
- Make sure that the vehicle is resting squarely on the lift
- Know the load limits of the lift and do not overload them
- If the hoist has a locking device, make sure it is in place when the lift is up
- **Do not** block or tie open the lift controls when in motion
- **Do not** leave the lift controls when the lift is in motion

#### While You Are Working

- Use 4 (if available) transmission jack stands of rated capacity to support the vehicle and to stabilize and equalize the load when removing the transmission
- **Do not** lower the vehicle onto the jack stands; this disengages the lift's locking devices
- **Do not** lower the lift too far or too quickly; this can cause the jack stands to move, causing the vehicle to fall

- Use an impact wrench when working on an elevated vehicle
- **Do not** use a cheater or break bar when working on an elevated vehicle; the sudden pushing or pulling force could cause the vehicle to shift and fall

### Maintenance

- Take the lift out of service and lockout until repaired if it is:
  - Leaking (air or hydraulic fluid)
  - Dropping abruptly
  - Dropping slowly
  - Stepping when being raised or lowered
  - Jerky when being raised or lowered

## Hazard: Weight

### Details

- A transmission can weigh between 200 and 500 lbs.

### Threat

- Serious back, hand or foot injuries

### Safe Work Guidelines

- Use at least two people to support the transmission when you lower the hydraulic ram of the jack or make sure that the transmission is well secured by fasteners on the jack
- Carefully pull the transmission and jack away from the engine

## Hazard: Improper Use of Tools

### Details

- Using the wrong tool for the job or using the correct one improperly

## Threat

- Hand and foot injuries
- Back injuries
- Musculoskeletal injuries
- Scrapes, cuts, bruising

## Safe Work Guidelines

- Use the right tool for the job and read directions on its proper use and care; ask your supervisor if you are unsure
- **Do not** use extreme force in pulling, etc., when the vehicle is on the jack
- Use impact sockets on an impact tool; do not use standard sockets, which can shatter
- **Do not** carry tools, especially pointed tools, in your pocket – if you slip or fall they can pierce your leg or kidney

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