**2020 Tesla Model 3 - LED Headlight Installation**

**Tools Needed:**

* Flathead screwdriver
* Ratchet and socket set
* Trim removal tool
* T25 Torx screwdriver

**Instructions:**

1. **Remove the front bumper:**
   * Open the frunk and remove the bolts securing the front bumper using a T25 Torx screwdriver.
   * Use a trim removal tool to gently pry off the plastic clips around the bumper.
   * Disconnect any electrical connections for sensors on the bumper and pull it away carefully.
2. **Remove the old headlight:**
   * Disconnect the wiring harness from the back of the headlight.
   * Use the ratchet set to remove the bolts holding the headlight in place.
   * Carefully slide the old headlight out of the housing.
3. **Install the new LED headlight:**
   * Align the new headlight into place and secure it with bolts.
   * Reconnect the wiring harness and test the new headlight before reattaching the bumper.
4. **Reattach the front bumper:**
   * Align the bumper and reattach it by tightening the bolts and clips.

**2021 Toyota Camry - Front Brake Pad Replacement**

**Tools Needed:**

* Jack and jack stands
* Lug wrench
* C-clamp
* Brake pad spreader tool
* Ratchet and socket set
* Brake cleaner

**Instructions:**

1. **Lift the car:**
   * Use a jack to lift the front of the vehicle and secure it with jack stands.
   * Remove the front wheels using the lug wrench.
2. **Remove the caliper:**
   * Use the ratchet set to remove the bolts securing the brake caliper to the rotor.
   * Slide the caliper off and hang it using a zip tie (don’t let it dangle from the brake line).
3. **Replace the brake pads:**
   * Use the C-clamp to push the caliper piston back into its housing.
   * Remove the old brake pads from the caliper bracket and install the new pads.
4. **Reinstall the caliper and wheel:**
   * Place the caliper back over the rotor and tighten the bolts.
   * Reinstall the wheels and lower the car.

**2022 Ford F-150 - Alternator Replacement**

**Tools Needed:**

* Wrench set
* Ratchet and socket set
* Serpentine belt tool or breaker bar
* Torque wrench

**Instructions:**

1. **Disconnect the battery:**
   * Always start by disconnecting the negative terminal of the battery to avoid electrical shocks.
2. **Remove the serpentine belt:**
   * Use the serpentine belt tool or a breaker bar to release the tension on the belt and slide it off the alternator pulley.
3. **Remove the alternator:**
   * Disconnect the electrical connections from the alternator.
   * Use a socket set to remove the bolts holding the alternator in place, and carefully lift it out.
4. **Install the new alternator:**
   * Place the new alternator in position and secure it with bolts.
   * Reconnect the electrical connections and reattach the serpentine belt.
   * Tighten everything to the manufacturer’s specifications using a torque wrench.
5. **Reconnect the battery:**
   * Reconnect the battery and start the vehicle to test the alternator.

**2019 Honda Accord - Oil Filter Replacement**

**Tools Needed:**

* Oil filter wrench
* Drain pan
* Socket wrench
* Funnel
* New oil filter
* New oil

**Instructions:**

1. **Drain the old oil:**
   * Lift the vehicle and place a drain pan underneath the oil pan.
   * Remove the oil drain plug using a socket wrench and allow the oil to drain completely.
2. **Remove the old oil filter:**
   * Use an oil filter wrench to loosen and remove the oil filter.
   * Be careful as oil may still be in the filter.
3. **Install the new oil filter:**
   * Apply a small amount of fresh oil to the rubber gasket of the new filter.
   * Screw the new filter in place by hand, and then tighten it with the filter wrench.
4. **Refill with new oil:**
   * Reinstall the oil drain plug and lower the car.
   * Use a funnel to add the appropriate amount of oil to the engine.

**2018 Chevrolet Silverado 1500 - Spark Plug Replacement**

**Tools Needed:**

* Spark plug socket
* Ratchet and extension
* Torque wrench
* Dielectric grease

**Instructions:**

1. **Remove the ignition coils:**
   * Disconnect the battery and locate the ignition coils.
   * Remove the electrical connectors and bolts securing the coils, then pull them out.
2. **Remove the old spark plugs:**
   * Use a spark plug socket and ratchet to remove the old spark plugs.
3. **Install new spark plugs:**
   * Apply a small amount of dielectric grease to the new spark plug threads.
   * Screw in the new plugs by hand, then tighten them with a torque wrench to the manufacturer’s specification.
4. **Reinstall the ignition coils:**
   * Place the coils back in their positions and reconnect the electrical connectors.

**2021 Nissan Rogue - Air Filter Replacement**

**Tools Needed:**

* Flathead screwdriver
* Replacement air filter

**Instructions:**

1. **Open the hood:**
   * Locate the air filter box, usually near the front of the engine bay.
2. **Remove the air filter cover:**
   * Use a flathead screwdriver to undo the clips or screws holding the cover in place.
3. **Remove the old air filter:**
   * Take out the old filter and inspect the inside of the box for any debris.
4. **Install the new air filter:**
   * Place the new filter into the box, ensuring it fits snugly.
   * Reattach the cover by tightening the screws or snapping the clips back into place.

**2020 BMW 3 Series - Brake Disc Replacement**

**Tools Needed:**

* Jack and jack stands
* Lug wrench
* Ratchet and socket set
* Torque wrench
* Brake cleaner

**Instructions:**

1. **Lift the car:**
   * Use a jack to lift the vehicle and secure it with jack stands.
   * Remove the front wheels using a lug wrench.
2. **Remove the caliper:**
   * Use a ratchet to remove the bolts securing the brake caliper to the rotor.
   * Slide the caliper off and hang it to avoid stress on the brake lines.
3. **Remove the old brake disc:**
   * Remove the retaining screws holding the rotor to the hub.
   * Gently tap the rotor with a mallet if it’s stuck, then slide it off the hub.
4. **Install the new brake disc:**
   * Place the new disc on the hub and secure it with the retaining screws.
   * Reinstall the caliper and tighten all bolts to the correct torque using a torque wrench.
5. **Reinstall the wheels:**
   * Mount the wheels back and lower the car.
   * Ensure the brake pedal feels firm before driving.

**2019 Hyundai Elantra - Fuel Pump Replacement**

**Tools Needed:**

* Wrench set
* Ratchet and socket set
* Torque wrench
* Fuel line disconnect tool
* Drain pan

**Instructions:**

1. **Relieve the fuel pressure:**
   * Disconnect the fuel pump fuse and start the engine to burn off remaining fuel in the lines.
2. **Access the fuel pump:**
   * In most vehicles, the fuel pump is located under the rear seat or in the fuel tank.
   * Remove the seat or access panel to reach the fuel pump.
3. **Disconnect the fuel lines:**
   * Use a fuel line disconnect tool to carefully remove the fuel lines from the pump.
4. **Replace the fuel pump:**
   * Remove the bolts holding the pump in place and carefully lift it out.
   * Install the new pump, reconnect the fuel lines, and tighten everything with a torque wrench.
5. **Reassemble the seat or panel:**
   * Reinstall the access panel or seat and reconnect the fuel pump fuse.

**2022 Subaru Outback - Timing Belt Replacement**

**Tools Needed:**

* Socket set
* Torque wrench
* Timing belt tool kit
* Serpentine belt tool
* Jack and jack stands

**Instructions:**

1. **Lift the vehicle:**
   * Jack up the car and secure it with jack stands.
   * Remove any parts obstructing the timing belt cover, such as the serpentine belt.
2. **Remove the timing belt cover:**
   * Use a socket wrench to remove the bolts securing the cover.
3. **Remove the old timing belt:**
   * Line up the timing marks on the crankshaft and camshaft.
   * Remove the tensioner, then slide off the old belt.
4. **Install the new timing belt:**
   * Align the new belt with the timing marks on the camshaft and crankshaft.
   * Reinstall the tensioner and check the alignment.
5. **Reinstall the cover and belts:**
   * Secure the timing belt cover and reinstall the serpentine belt.
   * Lower the vehicle and reconnect the battery.

**2020 Mercedes-Benz C-Class - Radiator Replacement**

**Tools Needed:**

* Drain pan
* Socket set
* Torque wrench
* Pliers
* Flathead screwdriver

**Instructions:**

1. **Drain the coolant:**
   * Place a drain pan under the radiator and open the drain plug to release the coolant.
2. **Remove the hoses and fans:**
   * Use pliers to disconnect the radiator hoses and a socket wrench to remove the cooling fans.
3. **Remove the old radiator:**
   * Remove the bolts securing the radiator and carefully lift it out.
4. **Install the new radiator:**
   * Position the new radiator and secure it with the bolts.
   * Reconnect the hoses and reinstall the cooling fans.
5. **Refill with coolant:**
   * Close the drain plug and refill the system with the appropriate coolant.
   * Start the engine and check for leaks.