

# JKS™

## Installation Instructions

Product: **1" Budget Motor Mounts**

Part Number: **PN 8100**

Applications: **Wrangler TJ, 1997+ 4.0L, 2.5L, 2.4L ONLY**  
**Wrangler YJ, 1987-95 4.2L, 4.0L, 2.5L ONLY**

### Welcome

CONGRATULATIONS on your purchase of new JKS 1" Budget Motor Mounts! At JKS Manufacturing, we are committed to providing you with the best products available and your satisfaction is our first priority.

PLEASE READ these Installation Instructions carefully, and save them for future reference, as they contain important installation and maintenance information.

### Important

**MUST BE INSTALLED** on one side of vehicle at a time.

**MUST BE INSTALLED** in conjunction with, or following, the installation of a body lift.

**OE MOTOR MOUNT BUSHINGS** must be in good condition. If worn or questionable, new motor mounts must be installed.

### Tools Required

- Metric/Standard Socket Wrench Set
- 15mm and 18mm Open End Wrenches
- Torque Wrench
- Pliers or Vice Grips
- Hydraulic Floor Jack
- Wire Brush and/or Chemical Cleaner (to clean bolt threads)
- Die Grinder with Cut-Off Wheel or similar cutting tool (for cutting OE insulator stud)
- Anti-Seize Lubricant
- Factory Service Manual (recommended) \*

*\* Asterisk denotes tools that are not required for some applications. Thoroughly read instructions first to determine which tools will be required for your application.*

### Parts



|          | DESCRIPTION                    | QTY |
|----------|--------------------------------|-----|
| <b>A</b> | Motor Mount Spacer             | 2   |
| <b>B</b> | Bolt Extension                 | 2   |
| <b>C</b> | M10 x 1.5 x 60mm Bolt & Washer | 2   |

## Installation

### 1. SUPPORT ENGINE

- Place a hydraulic jack beneath the vehicle and choose one of the following locations as a lifting point for the engine:
  - Position jack beneath transmission bell housing with block of wood to distribute weight of engine across surface.
  - or –
  - Position jack beneath mounting flange of engine oil pan with block of wood to distribute weight across oil pan bolts.

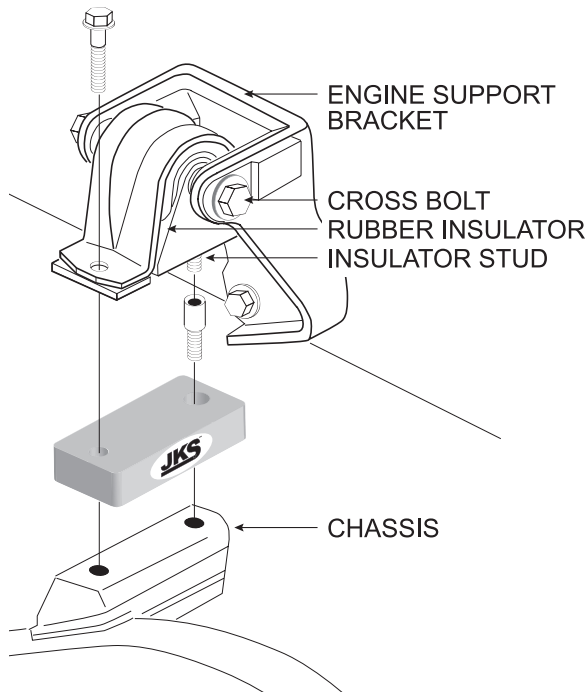
**IMPORTANT: Do NOT attempt to lift the engine by engine oil pan.**

- Carefully raise the hydraulic jack just enough to remove the weight of the engine from the engine mounts.

### 2. REMOVE OE ENGINE MOUNT

- Remove the nut from the cross bolt that secures the rubber insulator to the engine support bracket. DO NOT REMOVE cross bolt yet.
- Remove the original retaining bolt and nuts that secure the rubber insulator to the chassis. Retain original nuts.
- Remove the cross bolt and insulator from vehicle.

**IMPORTANT: If vehicle is equipped with air conditioning, the condenser pump will not allow adequate space to remove the cross bolt. Therefore, it will be necessary to remove the entire engine support bracket assembly from the engine.**



### 3. INSTALL MOTOR MOUNT SPACERS

- Using a wire brush and/or chemical cleaner, thoroughly clean the threads of the stud protruding from the base of the rubber insulator.
- Using a cutting tool, remove 1/4" from the length of the OE insulator stud.  
**HINT: Use care to avoid damaging threads.**
- Thread the supplied Bolt Extension (B) onto the insulator stud. Use pliers or vice grips to ensure Bolt Extension completely threads onto stud until seated against bottom of insulator.
- Slip the Motor Mount Spacer (A) over the Bolt Extension (B) and re-position the engine mount assembly on the chassis.

**IMPORTANT: If vehicle is equipped with air conditioning, it will be necessary to reinstall the engine support bracket on the engine at this time.**

- Apply anti-seize lubricant to threads of the M10 x 1.5 x 60mm Bolt (C) and insert with supplied washer into remaining mounting hole.
- Loosely thread the original 15mm locking nuts onto the Bolt Extension (B) and M10 Bolt (C) to secure the engine mount to the chassis.
- Adjust height of hydraulic jack to align the rubber insulator with engine support bracket.
- Re-install original cross bolt and retaining nut to secure the rubber insulator to the engine support bracket. DO NOT TIGHTEN yet.

### 4. REPEAT AND TIGHTEN HARDWARE

- Repeat Steps 2 and 3 on opposite side of vehicle before tightening mounting hardware to proper torque specifications.
- Using a torque wrench, tighten the cross bolt to 60 ft-lbs., and 15mm locking nuts to 30 ft-lbs.

### 5. CHECK FAN SHROUD CLEARANCE

- Before starting engine, check for interference between the fan shroud and fan blades. If necessary, trim the fan shroud until it completely clears any interferences.

## Maintenance

Check all torque specifications as part of regular vehicle maintenance schedule.

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