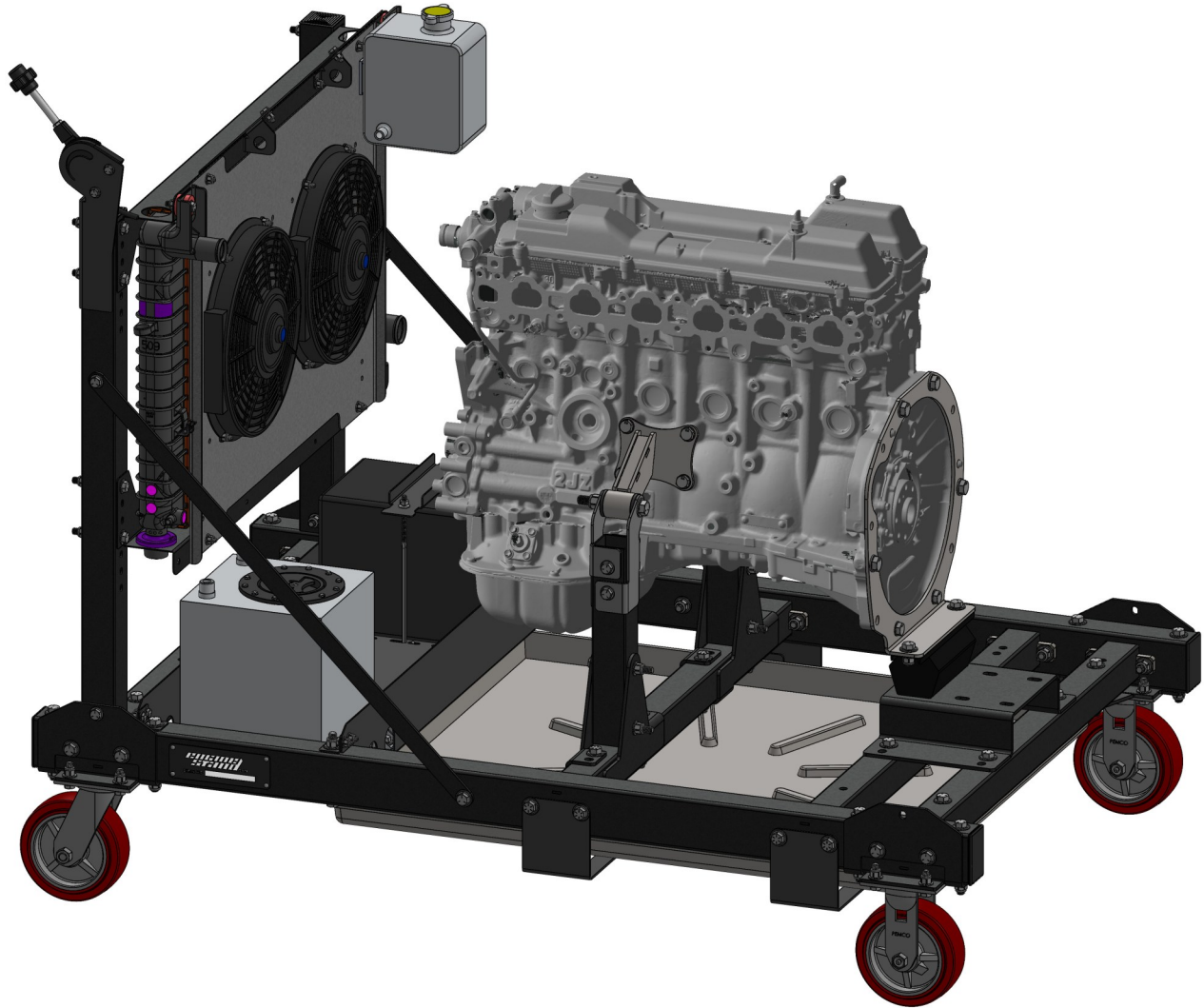# Running Engine Stand

**MECHMAN ALTERNATORS**



# 2JZ Engine Assembly Instruction Manual

**Important Notes for Assembly:**

- This manual is for the 2JZ motor mount kit for the Running Engine Stand assembly. If you have not yet started with the Main Assembly or ATW instructions, start there before returning here.

- Use care when handling parts. There may be sharp edges and holes on components. Using thick protective gloves is recommended during the assembly process.

- Each bolt and nut should have the appropriately sized washer placed between the fastener and the frame.

Required Tools:

- Ratchet
- 3/4" Wrench
- 3/4" Socket
- 5/8" Wrench
- 5/8" Socket
- 9/16" Wrench
- 9/16" Socket

- 19mm Socket
- 17mm Socket

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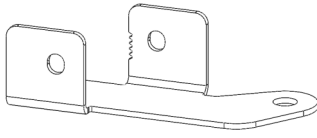If you are experiencing problems upon installation—DO NOT RETURN THIS PRODUCT!

**Most installation problems can be easily solved.**

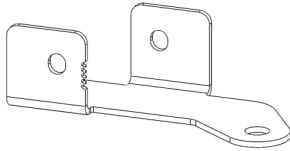First contact technical support at:

**Service@mechman.com**

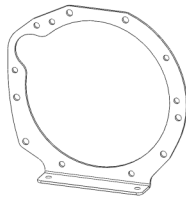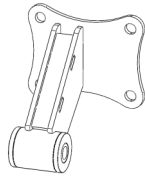**1 (888) MECHMAN or 865-522-6166**

# Included Components:

| | | |
|---|---|---|
| | 2JZ Motor Mount Part A | 2x |
| | 2JZ Motor Mount Part B | 2x |
| | 2JZ Bell Adapter Plate | 1x |
| | 2JZ Motor Mount | 2x |
| | 2WD Transmission Mount | 1x |
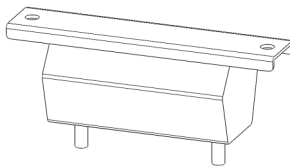
# Included Hardware
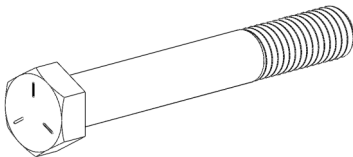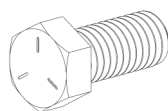
| | | |
|---|---|---|
| | 1/2"-13 x 3.75" Hex Bolt | 2x |
| | 7/16"-14 x 1" Hex Bolt | 2x |
| | 3/8"-16 x 3" Hex Bolt | 4x |
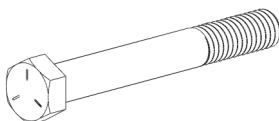
# Included Hardware
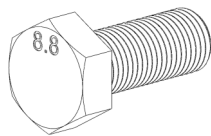
| | | |
|---|---|---|
| | M12-1.25 x 30 Hex Bolt | 4x |
| | M10-1.25 x 25 Hex Bolt | 10x |
| | 1/2" Flat Washer | 4x |
| | 7/16" Flat Washer | 4x |
| | 3/8" Flat Washer | 18x |
| | M12 Flat Washer | 4x |
| | 1/2"-13 Nylock Nut | 2x |
| | 7/16"-14 Nylock Nut | 2x |
| | 3/8"-16 Nylock Nut | 4x |
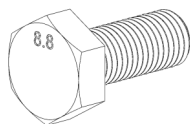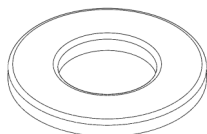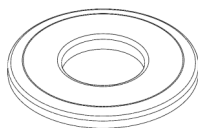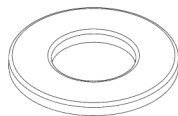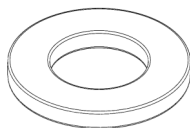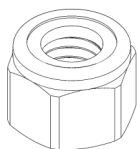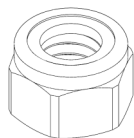
# Assembly Instructions:

## Step 1: Attaching the 2JZ Motor Mount Brackets to the Front Engine Mount Tubes

### Required Components:

- 2x 2JZ Motor Mount Part A
- 2x 2JZ Motor Mount Part B

### Required Hardware:

- 4x 3/8"-16 x 3" Hex Bolts
- 8x 3/8" Flat Washer
- 4x 3/8"-16 Nylock Nut

- Use the 3/8"-16 x 3" Hex Bolts to attach the 2JZ Motor Mount Brackets to the Front Engine Mount Tubes.

4x 3/8"-16 x 3" Hex Bolt

Note:
Tabs should point towards center

# Assembly Instructions:

## Step 2: Attaching the 2WD Transmission Mount to the Rear Engine Mount Bracket
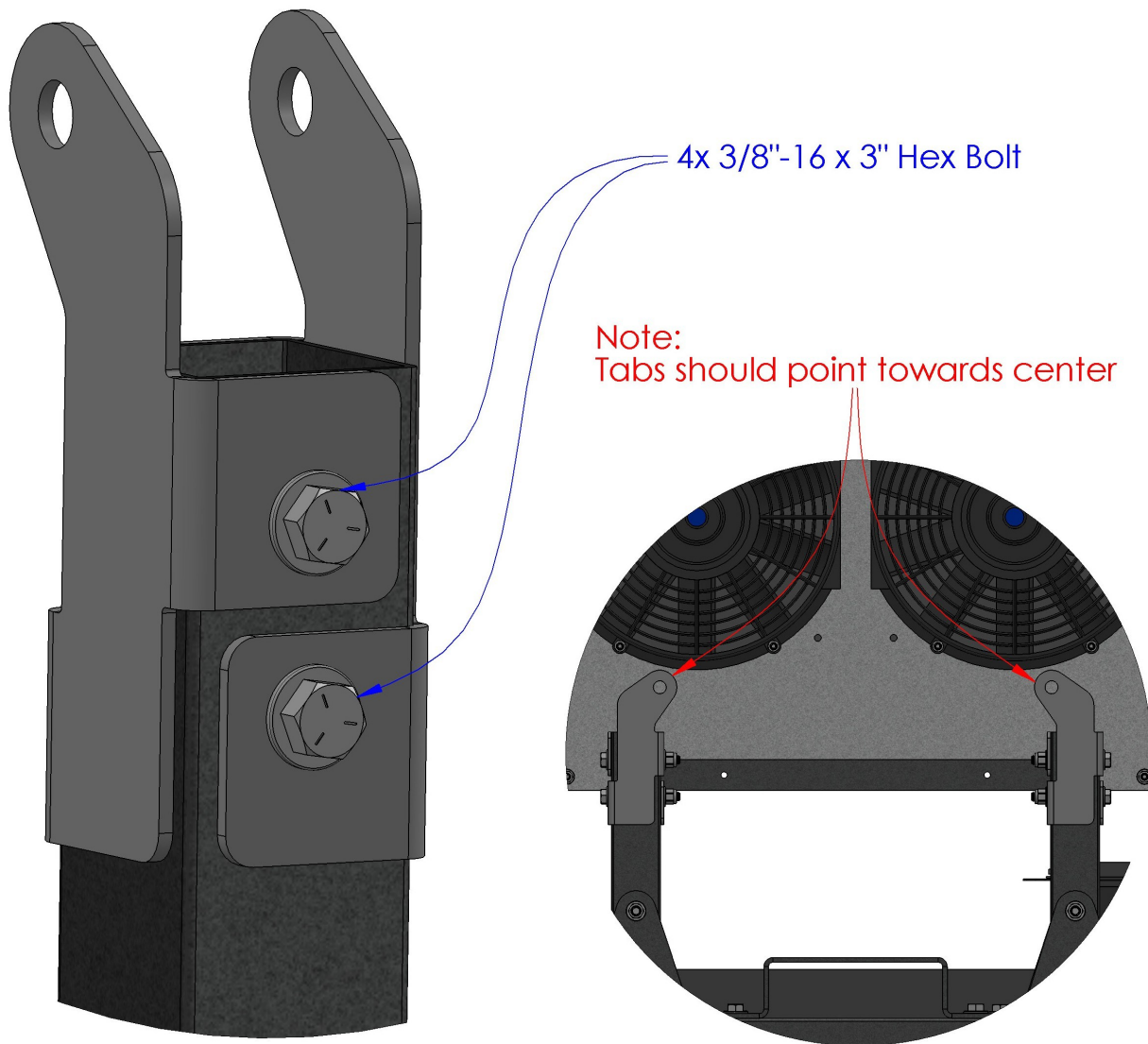
Required Components:    Required Hardware:

- 1x 2WD Transmission Mount
- 2x 3/8"-16 Flanged Nut (Included w/ Transmission Mount)

- Use the 3/8"-16 Flanged Nuts to attach the 2WD Transmission Mount to the Rear Engine Mount Bracket.

- Note: Place the 2WD Transmission Mount in the front set of slots.



2x 3/8"-16 Flanged Nuts



Note:
Use the slots closest to the front
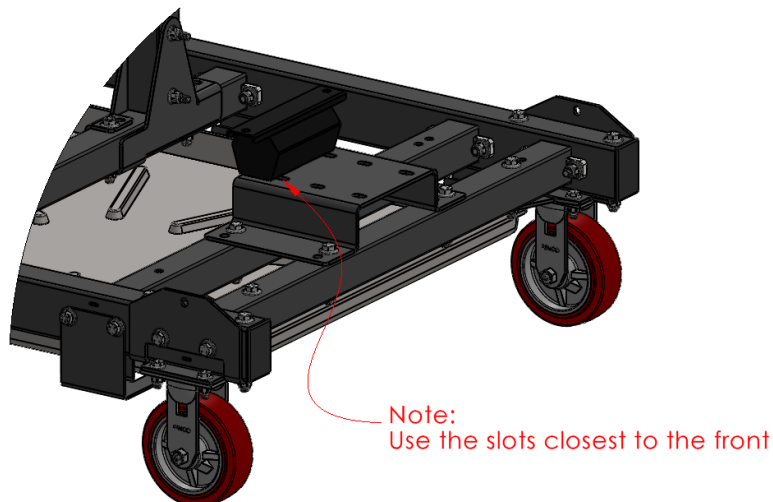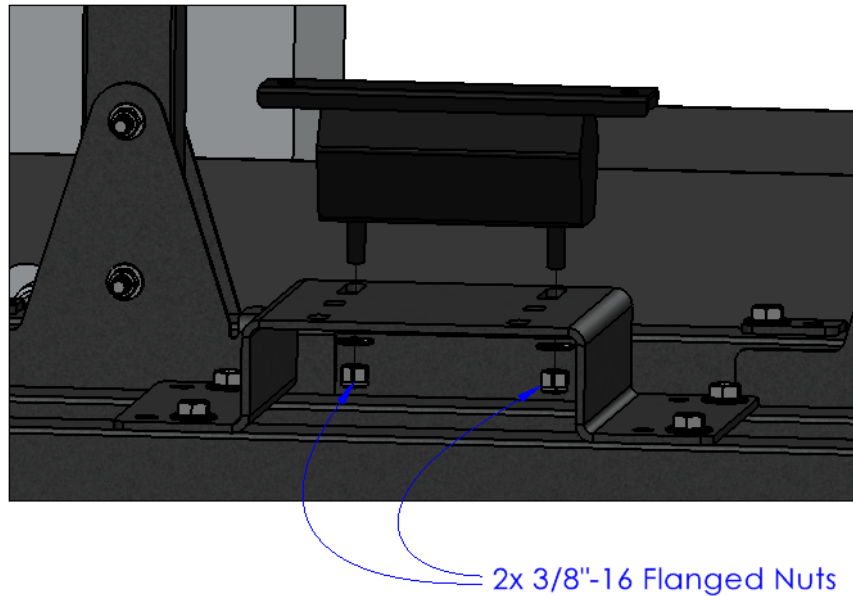
# Assembly Instructions:

## Step 3: Attaching the 2JZ Motor Mounts to the 2JZ Engine

**Required Components:**

- 1x 2JZ Engine
  (Not Included)
- 2x 2JZ Motor Mounts

**Required Hardware:**

- 8x M10-1.25 x 25 Hex Bolts
- 8x 3/8" Flat Washer

- Use the M10-1.25 x 25 Hex Bolts to attach the 2JZ Motor Mounts to the 2JZ Engine Block.

8x M10-1.25 x 25 Hex Bolt

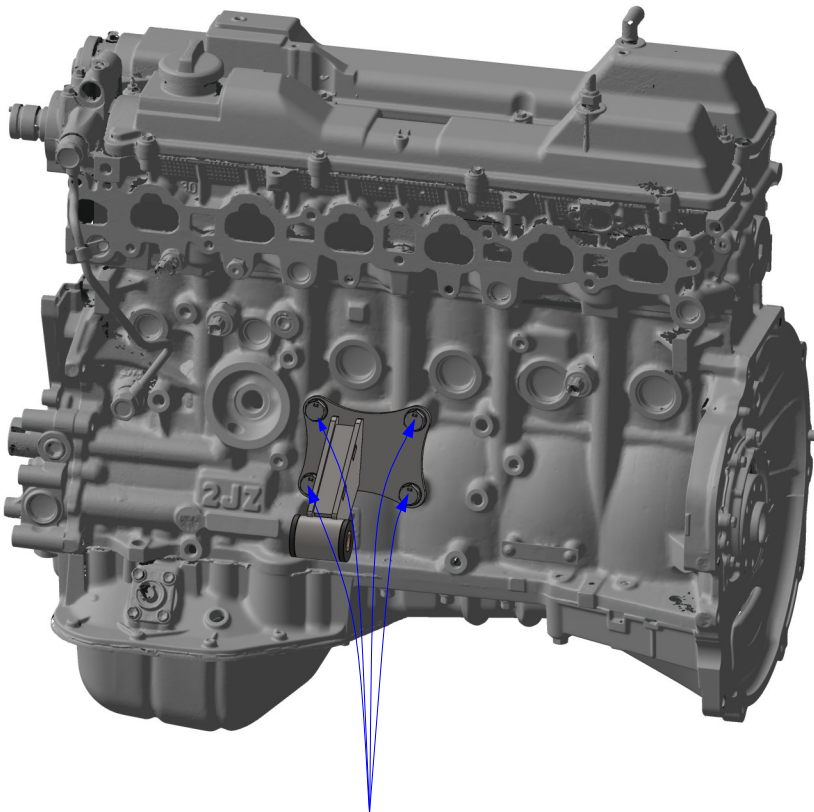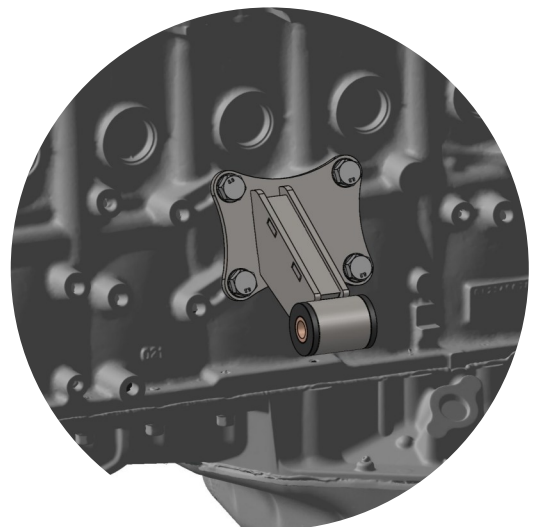**Other side of engine:**

# Assembly Instructions:

## Step 4: Attaching the 2JZ Bell Adapter Plate to the 2JZ Engine Assembly
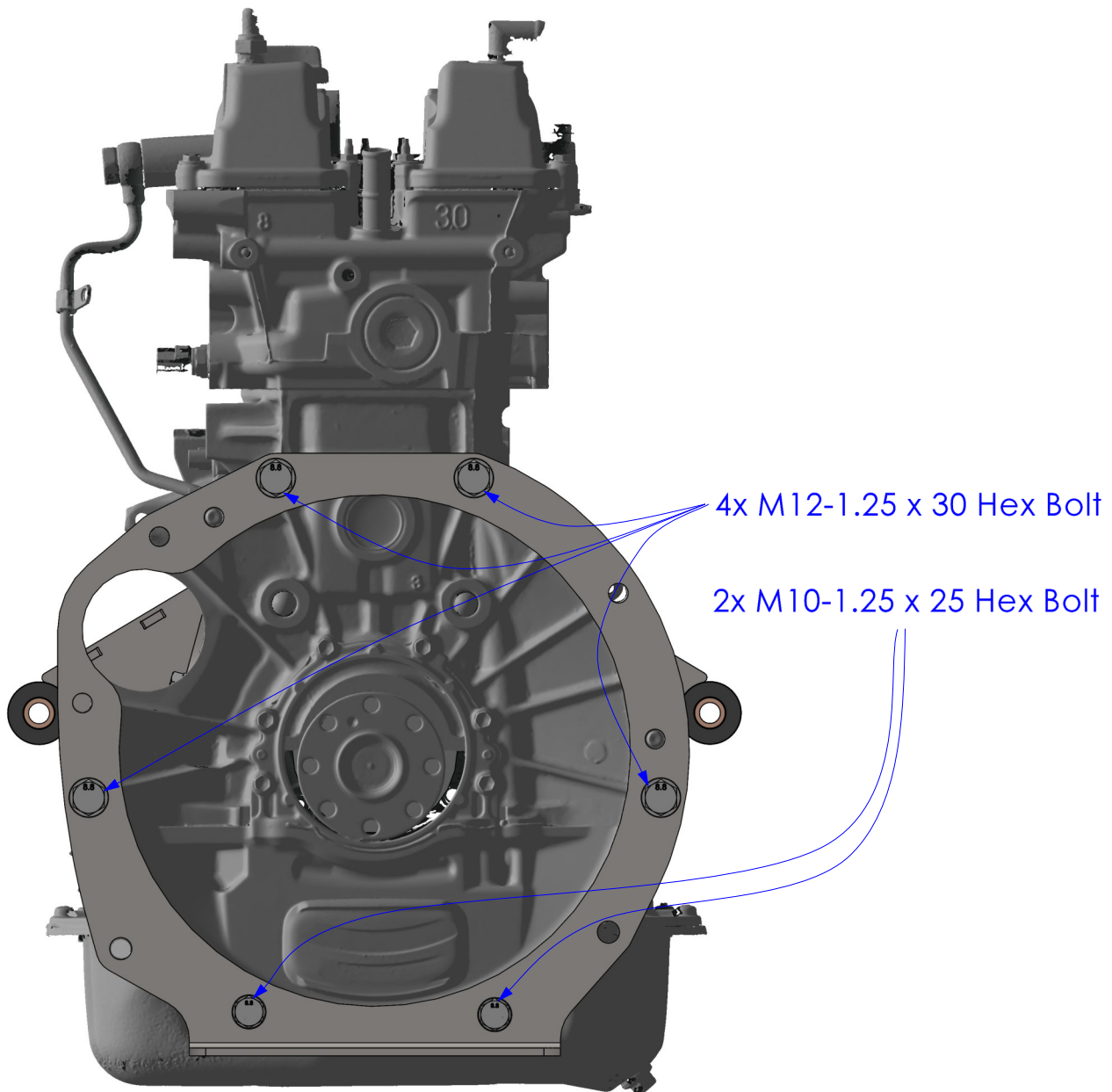
Required Components:

- 1x 2JZ Bell Adapter Plate

Required Hardware:

- 4x M12-1.25 x 30 Hex Bolts
- 2x M10-1.25 x 25 Hex Bolts
- 4x M12 Flat Washer
- 2x 3/8" Flat Washer

- Use the M12-1.25 x 30 Hex Bolts and the M10-1.25 x 25 Hex Bolts to attach the 2JZ Bell Adapter Plate to the 2JZ Engine.



4x M12-1.25 x 30 Hex Bolt

2x M10-1.25 x 25 Hex Bolt

# Assembly Instructions:

## Step 5: Attaching the 2JZ Engine Assembly to the Running Engine Stand

### Required Components:

- 1x 2JZ Engine Assembly

### Required Hardware:

- 2x 1/2"-13 x 3.75" Hex Bolts
- 2x 7/16"-14 x 1" Hex Bolts
- 4x 1/2" Flat Washer
- 4x 7/16" Flat Washer
- 2x 1/2"-13 Nylock Nut
- 2x 7/16"-14 Nylock Nut

- Lower the 2JZ engine into place on the Running Engine Stand. Use the 1/2"-13 x 3.75" Hex Bolts to attach the 2JZ Motor Mounts to the 2JZ Motor Mount Brackets. Then, use the 7/16"-14 x 1" Hex Bolts to attach the 2JZ Bell Adapter Plate to the 2WD Transmission Mount.



2x 1/2"-13 x 3.75" Hex Bolt

2x 7/16"-14 x 1" Hex Bolt