

# INSTALLATION INSTRUCTIONS

## Auxiliary Alternator & Bracket

### (For Mahindra Roxor)

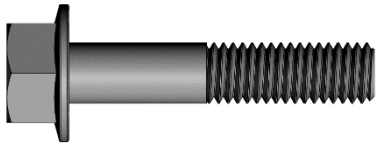


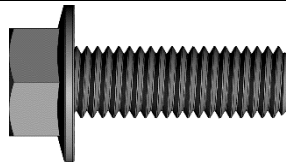


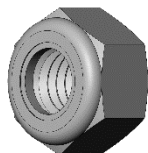
**INSTR-ROXOR**

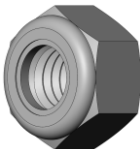

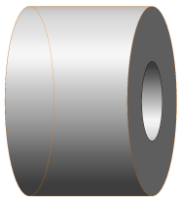
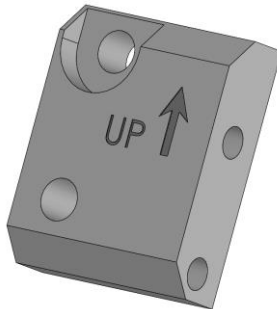
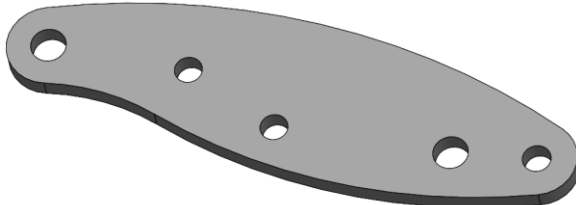

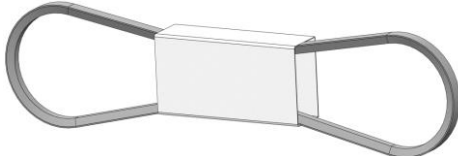


If you are experiencing problems upon installation  
- DO NOT RETURN THIS PRODUCT!

**Most installation problems can be easily solved.**  
 First contact technical support at: [support@mechman.com](mailto:support@mechman.com)  
**1 (888) MECHMAN or 865-522-6166**

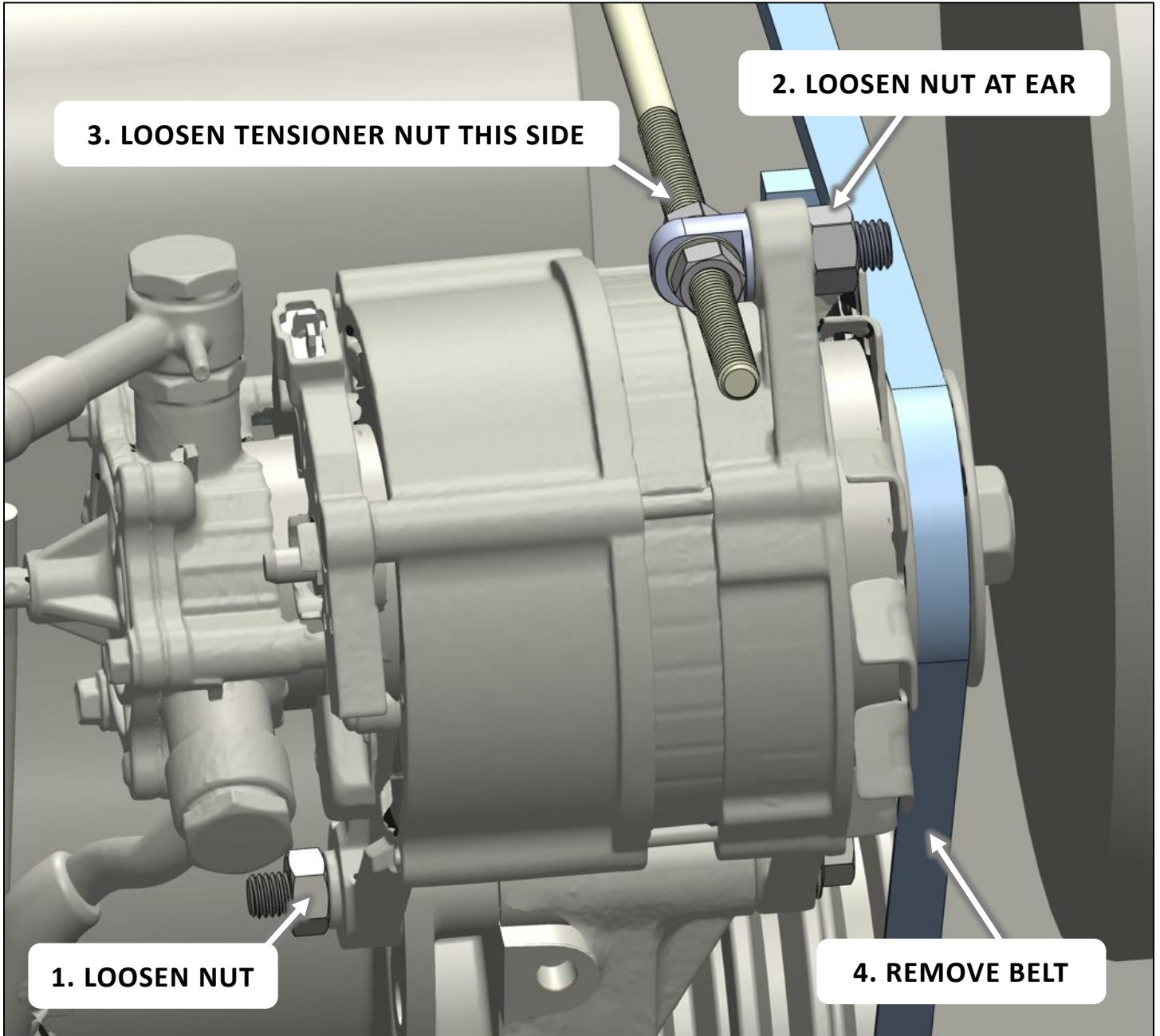
#### Hardware Included:

Quantity	Description	Size	Application	Torque
1	Flange Bolt	M8-1.25 X 40mm	Alternator to Turnbuckle	18 ft./lbs.
				
1	Hex Bolt	M8-1.25 X 45mm	Bracket to Turnbuckle	18 ft./lbs.
				
2	Socket Head Bolt	M8-1.25 X 75mm	Plate Brackets to Bracket Block	18 ft./lbs.
				
1	Flange Bolt	M10-1.5 X 30	Top Bracket Block to Engine	18 ft./lbs.
				
2	Flange Bolt	M10-1.5 X 40	Front Plate and Bottom of Block to Engine	36 ft./lbs.
				
1	Flange Bolt	M10-1.5 X 80	Alternator Main Mount	36 ft./lbs.
				
4	Nyloc Nut	M8-1.25	Numerous	18 ft./lbs.
				

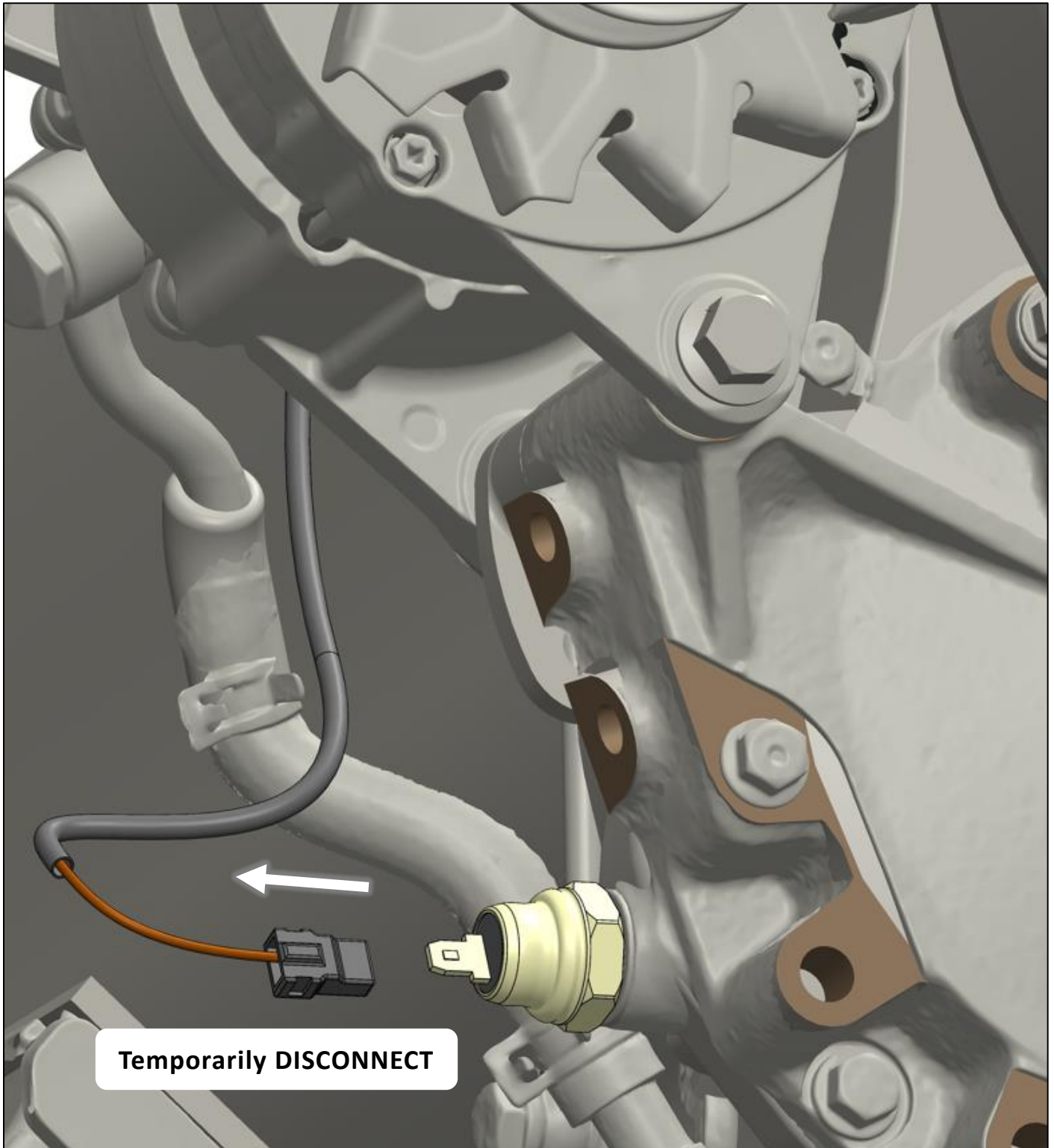
1	Nyloc Nut	M10-1.5	Alternator Main Mount	36 ft./lbs.
				
1	Spacer	M8 Hole X 13mm Long	Alternator to Turnbuckle	
				
1	Spacer	M10 Hole X 17mm Long	Front Plate to Engine	
				
1	Bracket Block			
				
1	Bracket Front Plate			
				
1	Bracket Rear Plate			
				
1	V-Belt	9390HD - Gates Fleetranner HD V-Belt 1/2" x 39-3/8		
				

## INSTALLATION STEPS:

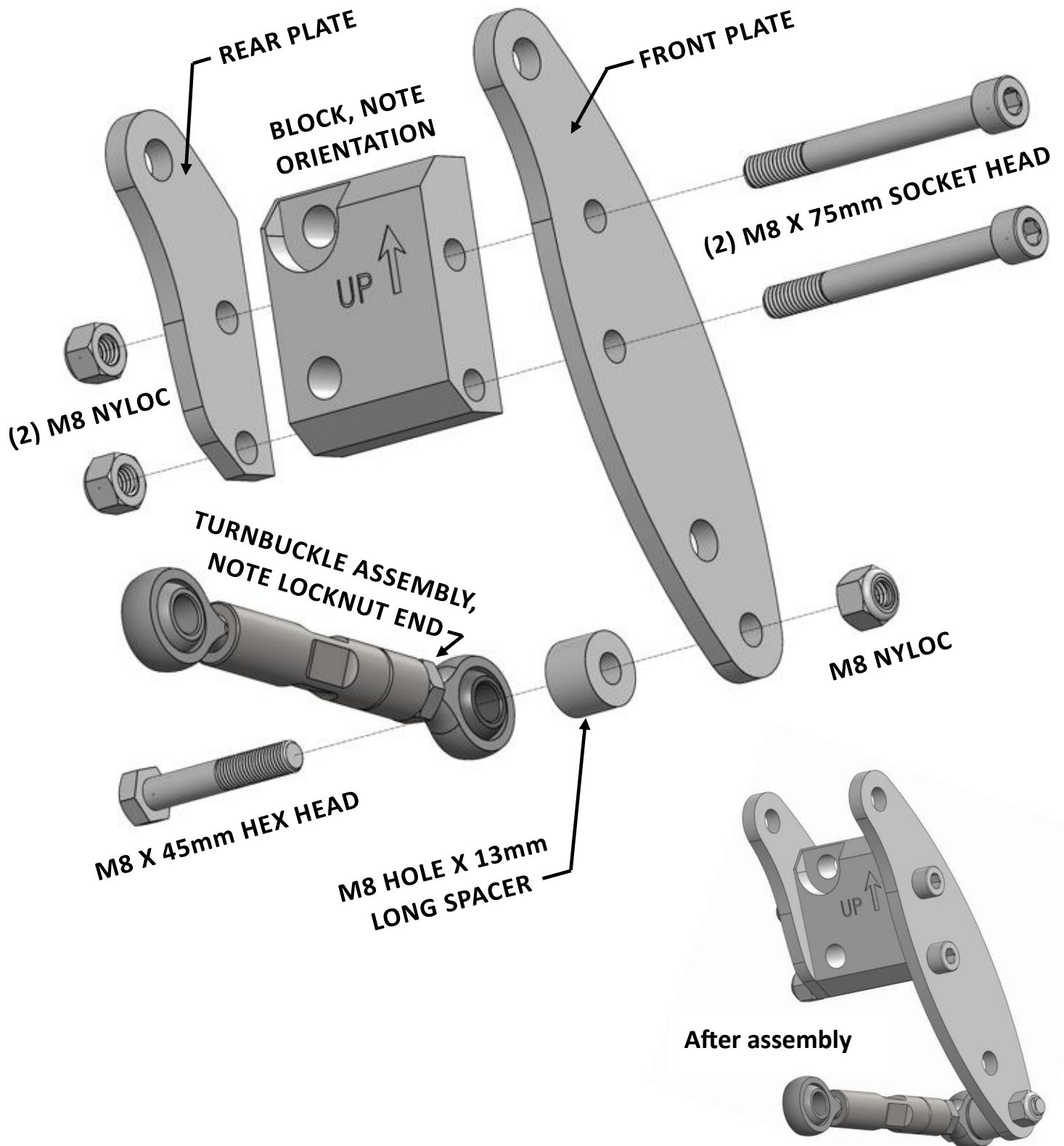
1. Release the belt tension on the original alternator and remove the alternator belt. This is to allow access to the rear pulley groove on the crank pulley. The belt will be reinstalled at the end of the installation process.



2. Temporarily remove harness connector from the oil pressure sensor. It will be reconnected after the second alternator is installed.



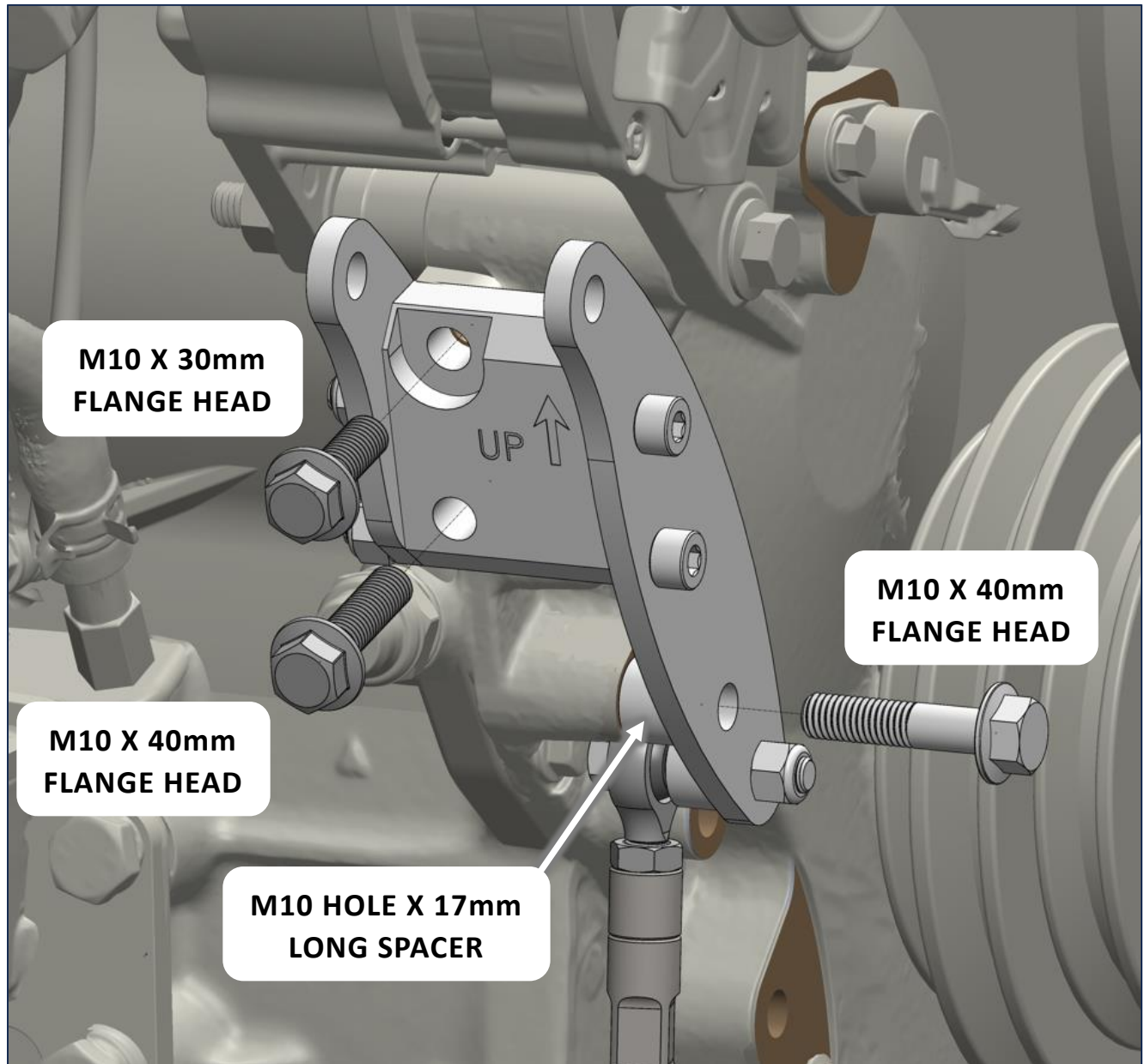
3. Preassemble the front and rear plate brackets to the bracket block. Insert socket head bolts from the front. Add M8 Nyloc nuts on the rear. Torque tight.
4. Install the jam nut side of the turnbuckle (as shown) with M8 X 45 hex bolt through shorter spacer to the rear of the front bracket. Install M8 Nyloc nut and tighten.



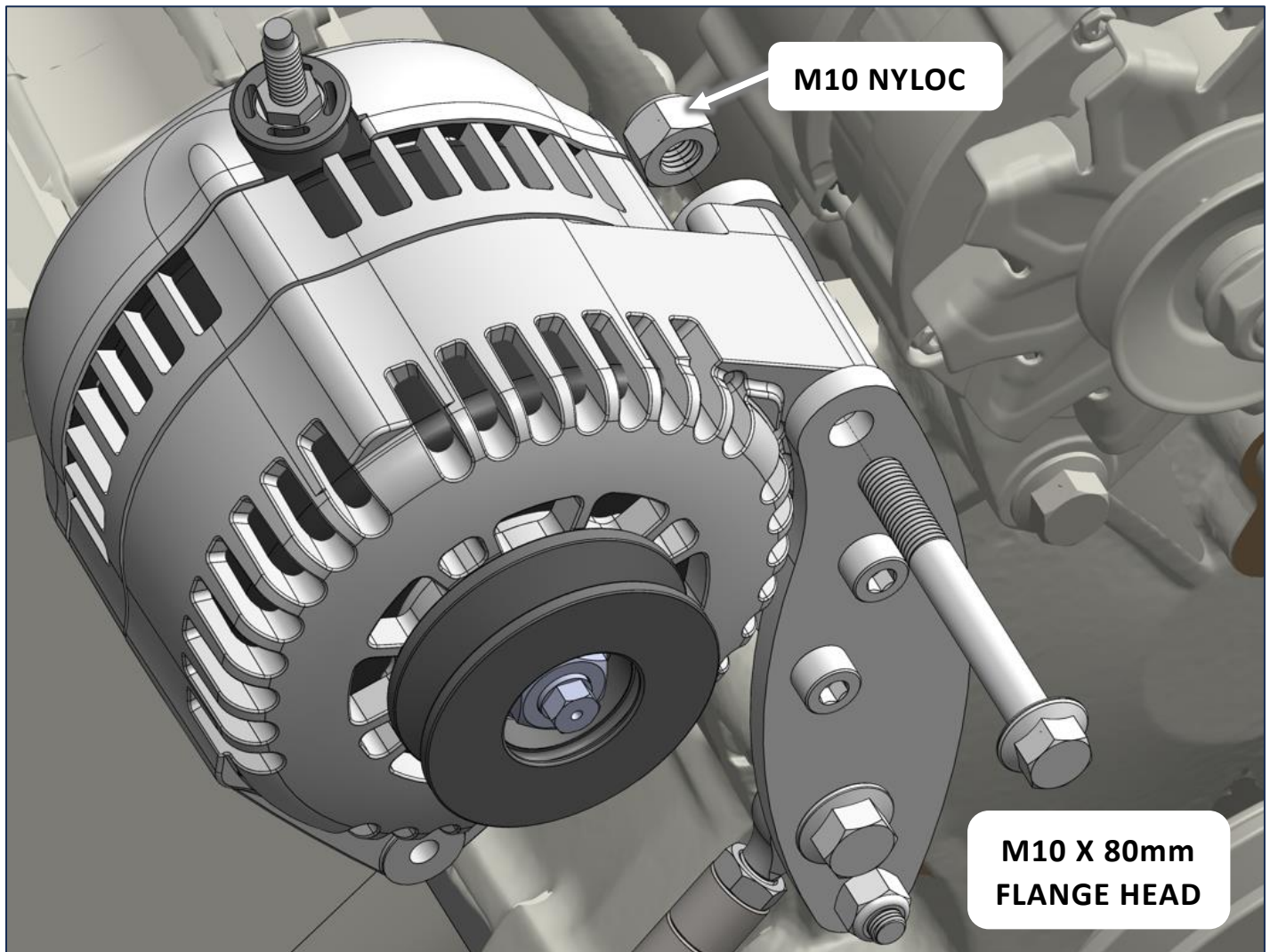


7. Install the bracket assembly to the engine block.

**NOTE:** Hand tighten the three bolts, then torque starting with the front M10 X 40mm bolt.

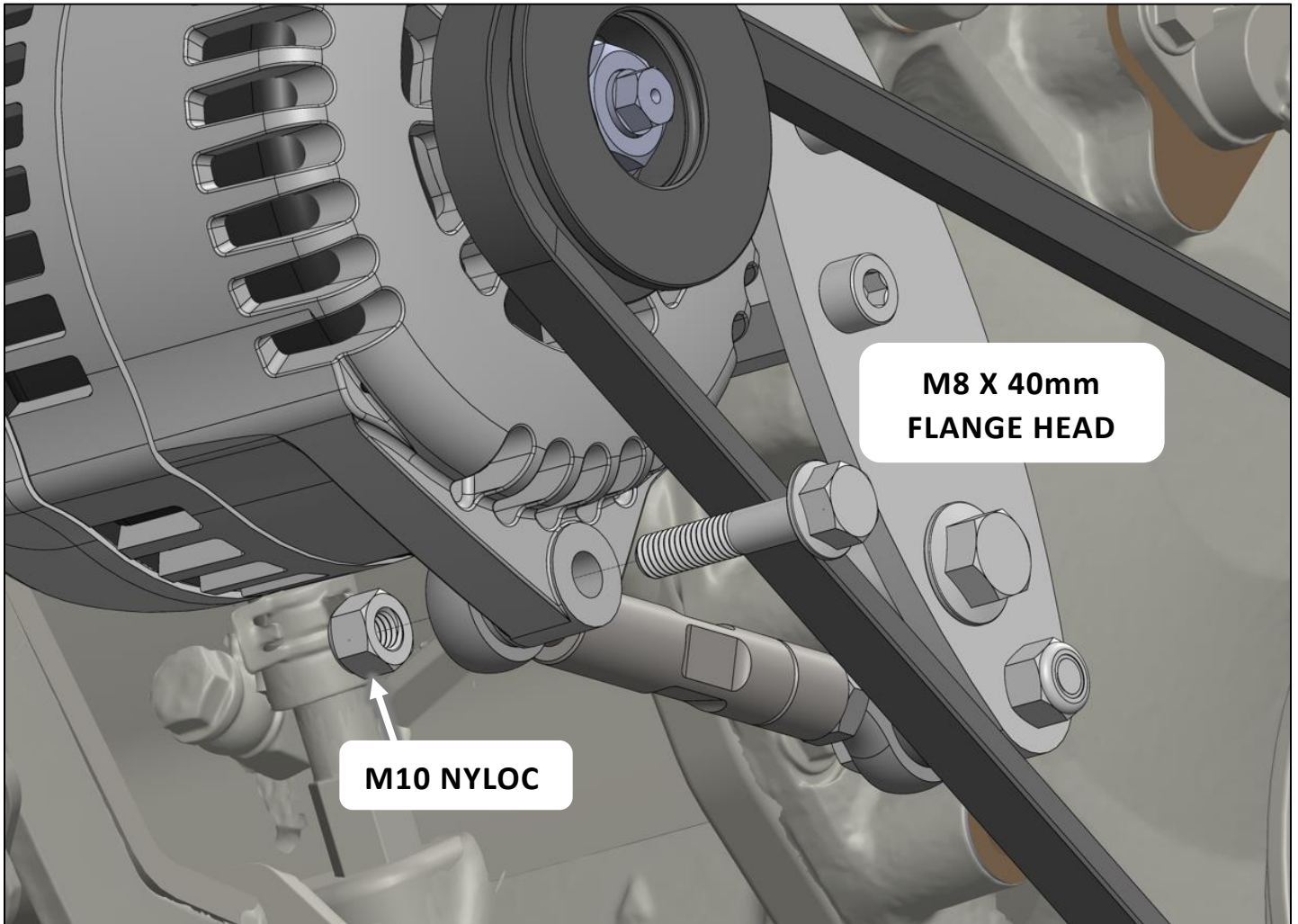


8. Install the alternator's main mount to the bracket assembly. Snug tight, but where alternator will still swing when pushed.



9. Loosely install the supplied belt over alternator and crank pulleys at this point.

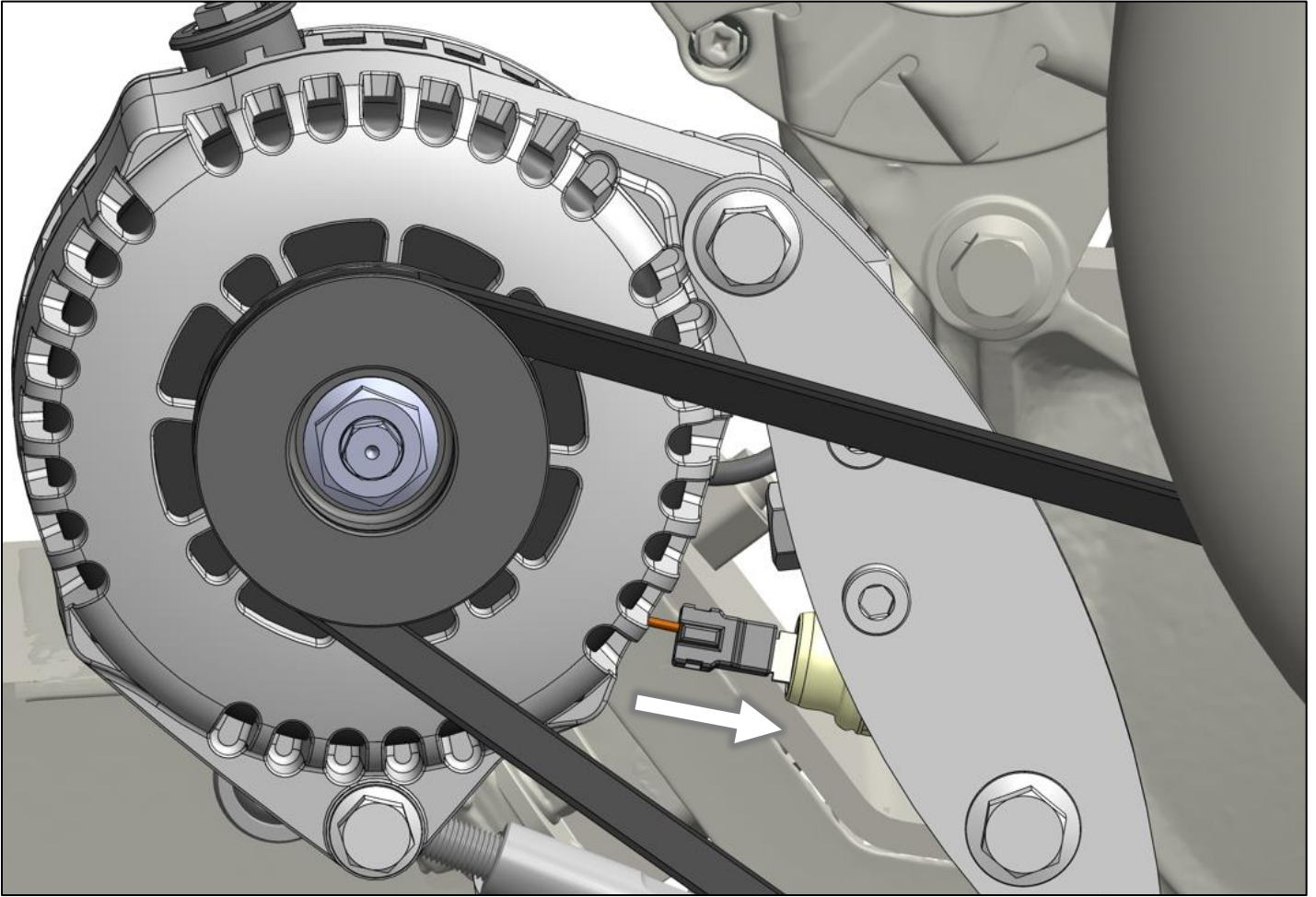
10. Install the other end of the turnbuckle at the rear of the alternator ear with the M8 X 40 flange head bolt. Install M8 Nyloc nut and tighten.



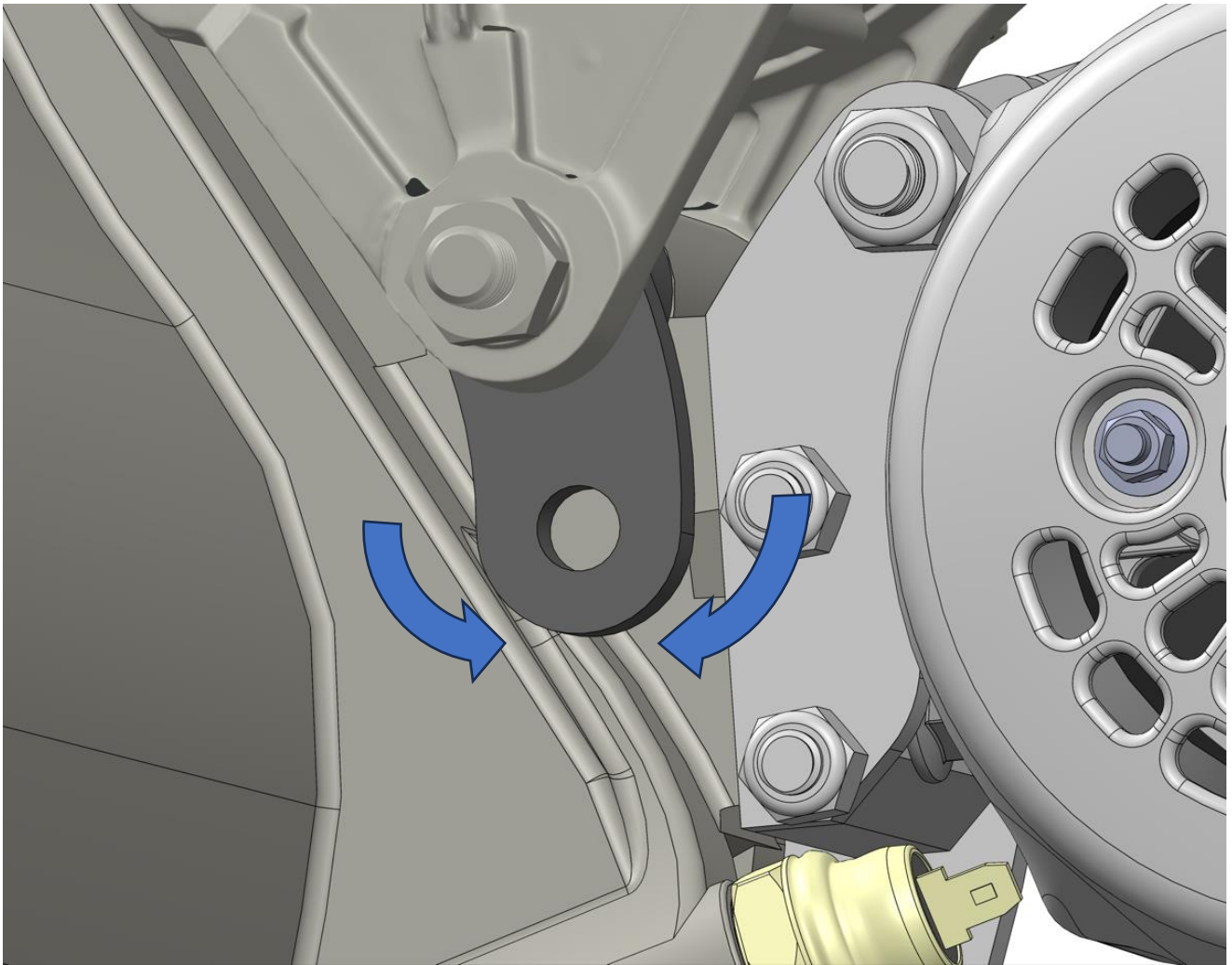
11. Tighten belt with turnbuckle and belt (do not over tighten). Once tight, hold the turnbuckle shaft with a wrench and tighten the jam nut.



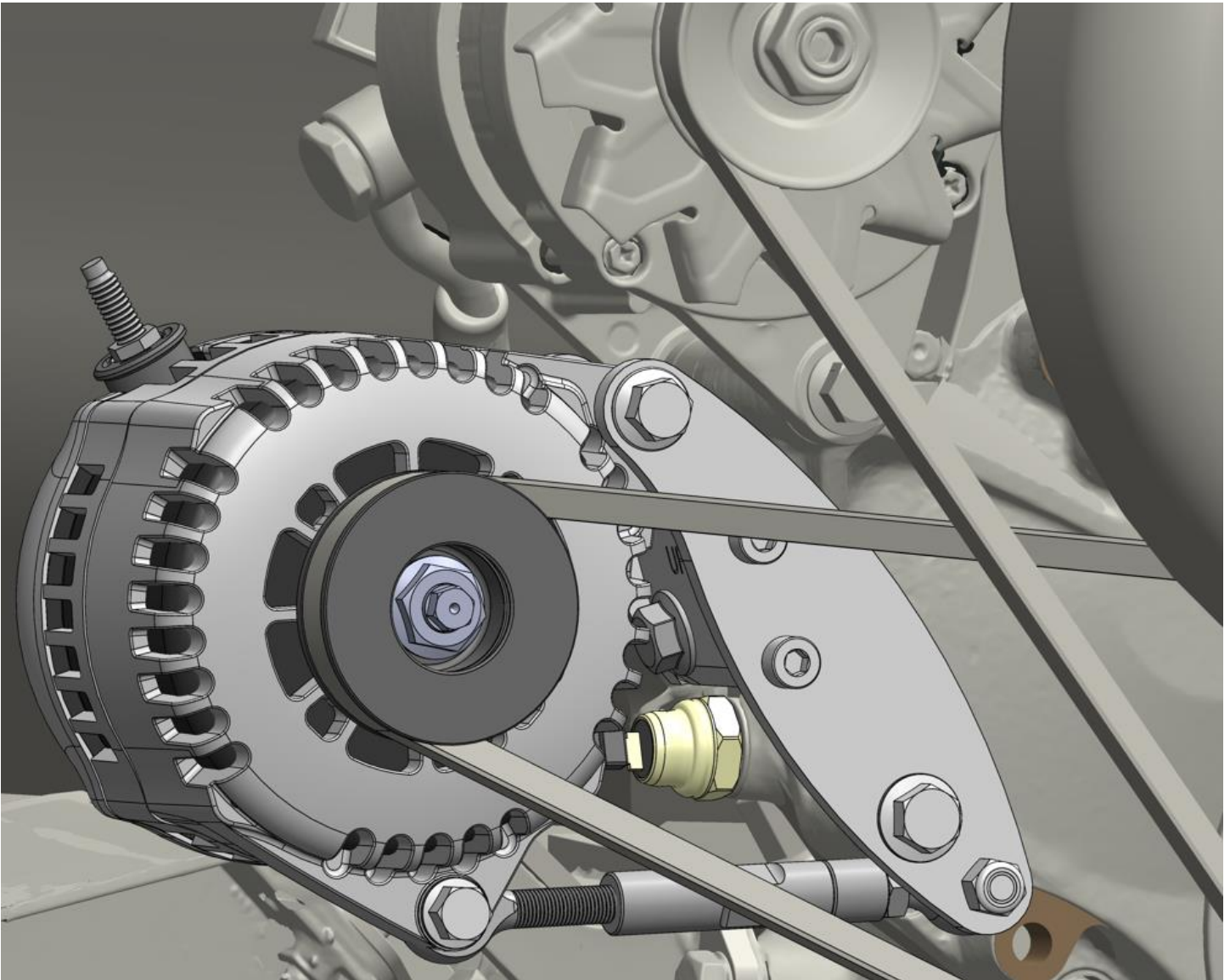
12. Reinstall the plug to the oil pressure sensor.



13. Confirm the original alternator spacer tab is rotated so that it is not interfering with the second alternator bracket OR the back of the engine block. Center the tab between the engine block and alternator bracket.



14. Install the original belt. Tighten the original alternator tensioner until that belt is tight (do not over tighten). Snug that tensioner's jam nut.



**Wiring:** a dedicated 4-gauge positive and ground must be run directly from the alternator to the battery.