

# 24TA07 V35 Engine Assembly Installation/Removal Tips

1. If the front of the bay has limited space, it is recommended to back the vehicle into the bay to allow space for engine crane maneuvering.



2. It is acceptable to prop the hood up without removing it, Ensure the hood is secure and there is enough clearance for the engine to be removed safely.
3. It is acceptable to use an engine load leveler to assist with removing/installing the engine assembly. Ensure load leveler is rated at 600+ lbs.

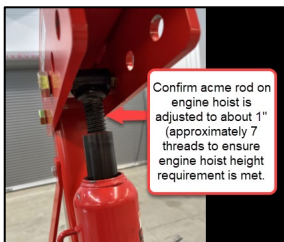
Example of engine load leveler: OTC 4305



4. In order to allow the engine hoist legs to fit under the engine assembly pallet, place 4 solid wheel chocks, 2x4" wood blocks, 4"x4" wood blocks or similar under the outside pallet legs as shown below. Ensure pallet is secure before sliding engine hoists legs underneath.



5. Ensure bottle jack has been adjusted properly before removing/installing the engine assembly as shown below. This will ensure the engine can be lifted above the grill when removing the engine.



6. Ensure the vehicle front wheels are removed and rotors are close to the ground without touching. This will ensure there is proper clearance to remove the engine assembly over the grill.



7. When removing and installing the a/c compressor from the old engine assembly to the new engine assembly, the engine assemblies will need to be lifted off the crate to move the a/c compressor.
8. The front drive shaft is under pressure. It may be necessary to use a ratchet strap or bungee cord to safely remove the front drive shaft from the vehicle. The same process may aid in installation.



9. Place a wood block (approximately 2.5" thick) between the transmission and transmission mount to ensure transmission stays level when removing engine assembly. Ensure wood block is removed after repair is complete.

