

USER-MANUAL: 2016 TOYOTA HIGHLANDER LE OWNER'S MANUAL

Maintaining Your Rebuilt Engine





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1.Introduction

This guide is designed to help those who own a 2016 Toyota Highlander LE and wants to take care of their rebuilt engine. If you use the right parts, fluids, and techniques to take care of a rebuilt engine, it will work smoothly

This user-manual will give you straightforward steps to follow to keep your engine healthy for a long time.





2. Engine Specifications and Details

Engine Type: 3.5L V6

Fuel Type: Regular unleaded

Horsepower: 270 hp

Engine Block: Aluminum alloy

Variant: 6-speed automatic

3. Rebuilt Engine: What You Should Know

Rebuilt engine is basically an engine which has been disassembled, inspected, cleaned, and reassembled using new or reconditioned components. It does not mean that the engine is new but it restores to working condition. Proper break-in and maintenance are very important to performance and reliability.



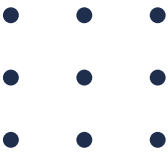
4. Initial Maintenance after Installation

Within the first 500 to 1K miles, it is important to perform the following:

- Change engine oil and oil filter
- Inspect coolant levels
- Check for any leaks
- Re-torque critical bolts (consult technician)
- Monitor engine temperature regularly

This early maintenance helps seat components and identifies early issues.





5. Routine Maintenance Schedule

Maintenance Task	Time Period
Engine Oil & Filter	5K miles
Air Filter	15K miles
Spark Plugs	60K
Coolant Flush	100K miles
Drive Belt Inspection	30K miles
PCV Valve	50K miles

Use OEM or equivalent quality parts for best results.



6. Fluids, Filters, and Part Guidelines

Engine Oil: full synthetic

Oil Capacity: 6.4 quarts

Coolant Type: Toyota Super Long Life

Spark Plug Gap: 0.043 in

Fuel System Cleaner: 10K miles

Check levels regularly and use clean, sealed containers when adding fluids.

7. Common Warning Signs to Monitor

If you face any of these sign, report it immediately to the technician:

- Strange sounds
- Blue or white smoke from the exhaust
- Engine overheating
- Reduced fuel efficiency
- Illuminated check engine light, scan for codes using OBD-II scanner

Taking action to these symptoms can prevent further damage.





8. Engine Break-In Process

If the rebuilt engine is freshly installed:

- Avoid aggressive acceleration for the first 1K miles
- Keep speed and load moderate
- Vary engine speed during driving
- Avoid towing or long-idle periods
- Follow the initial maintenance list

Consult with the rebuilder, if you have any query.

9. Seasonal Maintenance Tips

9.1 Before summer:

- Check coolant level and condition
- Inspect radiator hoses
- Make sure that thermostats are working properly





9.2 Before winter:

- Inspect battery and terminals
- Check oil thickness (0W-20 is winter-safe)
- Confirm heater operation and defrost system
- Top off windshield washer fluid with winter formula

10. Long-Term Engine Care Recommendations

- Use top-tier fuel from reputable stations
- Keep up with oil changes even during low use
- Avoid frequent short trips
- Clean throttle body every 40K miles
- Use a maintenance log to track services and dates



11. Do's and Don'ts for Rebuilt Engine Owners

11.1 Do:

- Follow regular maintenance
- Keep engine bay clean and dry
- Use manufacturer-recommended fluids
- Check for updates to Toyota's service bulletins

11.2 Don't:

- Skip oil changes
- Use non-OEM quality filters or parts
- Ignore small leaks
- Delay warning light diagnostics





12. Support and Contact Information

For questions about replacement parts, maintenance kits, or support with your rebuilt 2016 Toyota Highlander LE engine:

Website: www.carmotiveparts.com

