

Toyota 98413

Toyota 2-Speed Toyoglide Transmission Repair Manual No. 98413

Official Service Information for Maintenance and Repair

- [Introduction](#)
- [Specifications](#)
- [Disassembly](#)
- [Inspection & Repair](#)
- [Assembly](#)
- [Troubleshooting](#)

1. INTRODUCTION AND SAFETY INFORMATION

This manual provides detailed instructions for the proper repair and maintenance of the Toyota 2-Speed Toyoglide automatic transmission. It is intended for qualified service technicians. Adherence to these procedures is crucial for ensuring the safety and reliability of the transmission.

1.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is properly supported on jack stands or a lift before beginning any work.
- Disconnect the battery before performing electrical work.
- Be aware of hot surfaces and fluids. Allow components to cool before handling.
- Use only specified tools and genuine Toyota replacement parts.
- Dispose of fluids and waste materials according to local environmental regulations.

2. GENERAL SPECIFICATIONS AND SERVICE DATA

This section outlines the key specifications and service data for the Toyota 2-Speed Toyoglide transmission. Refer to these values during inspection, repair, and assembly.

Component/Parameter	Specification	Unit
Transmission Type	2-Speed Automatic	N/A

Component/Parameter	Specification	Unit
Fluid Type	Toyota Type T-II (or equivalent)	N/A
Fluid Capacity (Drain & Refill)	Refer to vehicle service manual	Liters
Clutch Pack Clearance	0.8 - 1.2	mm
Torque Converter Stall Speed	Refer to vehicle service manual	RPM

Note: Specific values may vary slightly depending on the exact vehicle model and year. Always consult the vehicle's primary service manual for precise figures.

3. DISASSEMBLY PROCEDURES

This section details the systematic disassembly of the 2-Speed Toyoglide transmission. Follow these steps carefully to avoid damage to components.

3.1 Transmission Removal

1. Drain transmission fluid.
2. Disconnect propeller shaft.
3. Remove torque converter bolts.
4. Support transmission and remove mounting bolts.
5. Carefully lower transmission from vehicle.

3.2 Component Disassembly

Once the transmission is removed, proceed with disassembling internal components. Keep all parts organized and note their original positions.

- Remove oil pan and filter.
- Remove valve body assembly.
- Disassemble clutch packs and planetary gear sets.
- Inspect all seals, gaskets, and O-rings for wear.

4. INSPECTION AND REPAIR

Thoroughly inspect all components for wear, damage, or signs of overheating. Replace any parts that do not meet specifications.

4.1 Clutch and Band Inspection

Check friction plates for burning or excessive wear. Measure clutch pack clearances and adjust as necessary. Inspect brake bands for wear and proper engagement.

4.2 Gear Train and Bearings

Examine planetary gears for chipped teeth or pitting. Inspect bearings and bushings for excessive play or scoring. Replace worn components.

4.3 Valve Body and Pump

Clean the valve body thoroughly and inspect for sticking valves or worn bores. Check the oil pump for scoring or

damage to the gears/rotors.

5. ASSEMBLY PROCEDURES

Assemble the transmission in the reverse order of disassembly, paying close attention to torque specifications and proper component alignment.

5.1 Component Assembly

- Install new seals, gaskets, and O-rings.
- Lubricate all moving parts with clean transmission fluid during assembly.
- Ensure all snap rings and retaining clips are correctly seated.
- Torque all fasteners to the specified values.

5.2 Transmission Installation

Install the transmission back into the vehicle, ensuring proper alignment with the engine and torque converter.

1. Mount transmission to engine block.
2. Install torque converter bolts.
3. Connect propeller shaft.
4. Refill with specified transmission fluid.
5. Perform initial fluid level check and road test.

6. TROUBLESHOOTING GUIDE

This section provides a guide to diagnose common issues encountered with the Toyota 2-Speed Toyoglide transmission.

Symptom	Possible Cause	Corrective Action
No Drive in Any Gear	Low fluid level, clogged filter, faulty pump, severe internal damage	Check fluid, inspect filter, diagnose pump, internal overhaul
Delayed Engagement	Low fluid pressure, worn clutch seals, sticking valve	Check fluid pressure, inspect seals, clean valve body
Slipping	Worn clutch plates, low fluid pressure, faulty governor	Inspect clutch packs, check fluid pressure, diagnose governor
Harsh Shifting	High line pressure, sticking valve, worn accumulator piston	Check line pressure, clean valve body, inspect accumulator

7. WARRANTY INFORMATION

This repair manual itself does not carry a product warranty. For warranty information regarding genuine Toyota replacement parts, please refer to the official Toyota parts warranty documentation provided at the time of purchase or consult an authorized Toyota dealer.

8. CUSTOMER SUPPORT

For further technical assistance or inquiries regarding the Toyota 2-Speed Toyoglide transmission, please contact an authorized Toyota service center or refer to the official Toyota service information portal. This manual is a historical document and direct support from the original publisher may no longer be available.

Toyota Motor Corporation

[Official Toyota Owners Resources](#)

© 1970 Toyota Motor Sales Co. Ltd. All rights reserved. Reproduction or transmission in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from the publisher, is prohibited.