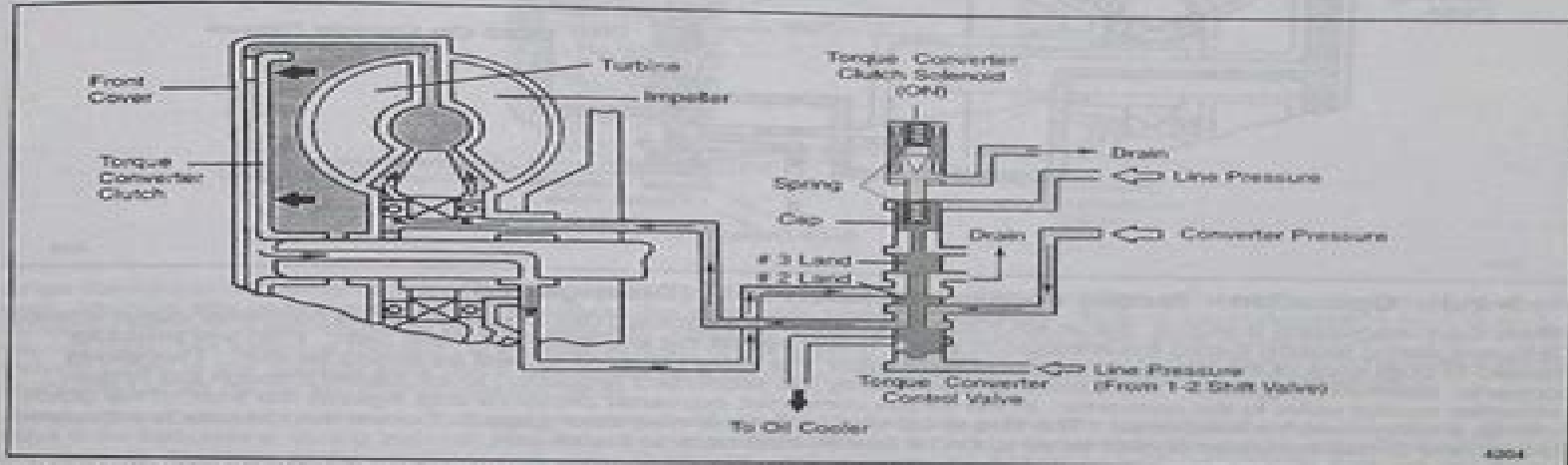


Torque Converter Clutch

The torque converter clutch connects the engine output directly to the overdrive input shaft of the transmission. Certain conditions must be satisfied before the torque converter clutch will operate. First, a predetermined minimum speed (43 mph) must be reached and maintained. To prevent lugging of the engine at lower speeds, or when the vehicle is coming to a stop, lock-up is restricted to the cruising speed range only. Second, to ensure that the engine is operating efficiently, the engine coolant temperature must be at least 122°F.

The torque converter clutch will automatically disengage when one or both of the following occur:

- Vehicle speed falls below overdrive (O/D) engagement speed (43 mph).
- Engine temperature falls below 122°F.



Hydraulic Operation - Torque converter clutch ON (Engaged)

When the transmission is in 2nd, 3rd, or 4th (O/D) gear, an ON signal from the TCM (Transmission Control Module) turns the torque converter clutch solenoid ON. This opens a drain passage and reduces line pressure on the spring end of the torque converter control valve. Line pressure at the opposite end of the control valve then forces the valve upward and seats it. This allows converter pressure to be routed through the turbine to the back of the torque converter clutch (see diagram). The re-routed converter pressure acts upon the rear of the clutch, forcing it against the front cover. Fluid from the front of the clutch drains through the torque converter control valve to the pan. Transmission fluid flow to the oil cooler is reduced with the torque converter clutch engaged.

Mechanical Operation - Torque converter clutch ON (Engaged)

Transmission fluid pressure on the back of the torque converter clutch forces it to mechanically "lock" to the front cover. The front cover, clutch and turbine all rotate as one unit, since the clutch is splined to the turbine. This provides a direct drive path from the engine crankshaft to the overdrive input shaft of the transmission. Damper springs on the torque converter clutch reduce the amount of drivetrain noise and vibration in the passenger compartment.

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Table of Contents Grandsportage Service Manual

1. Understanding the eBook Grandsportage Service Manual
 - The Rise of Digital Reading Grandsportage Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Grandsportage Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grandsportage Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grandsportage Service Manual
 - Personalized Recommendations
 - Grandsportage Service Manual User Reviews and Ratings
 - Grandsportage Service Manual and Bestseller Lists
5. Accessing Grandsportage Service Manual Free and Paid eBooks
 - Grandsportage Service Manual Public Domain eBooks
 - Grandsportage Service Manual eBook Subscription Services

- Grandsportage Service Manual Budget-Friendly Options
- 6. Navigating Grandsportage Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Grandsportage Service Manual Compatibility with Devices
 - Grandsportage Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grandsportage Service Manual
 - Highlighting and Note-Taking Grandsportage Service Manual
 - Interactive Elements Grandsportage Service Manual
- 8. Staying Engaged with Grandsportage Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grandsportage Service Manual
- 9. Balancing eBooks and Physical Books Grandsportage Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grandsportage Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grandsportage Service Manual
 - Setting Reading Goals Grandsportage Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grandsportage Service Manual
 - Fact-Checking eBook Content of Grandsportage Service Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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