

Section 00 DRIVE TRAIN

Subsection 03 (REAR AXLE)

Subtract measure "B" from measure "A". Note the result "C".

$$A - B = C$$

Remove ring gear carrier then install pinion gear into housing.

Measure distance between mounting surface and the pinion stem surface. This is measure "D".



Remove pinion gear then measure the distance between mount surface and bearing surface. This is measure "E".



Subtract measure "E" from measure "D". Note the result "F".

$$D - E = F$$

The difference between result "F" and result "C" is the pinion shim thickness.

$$F - C = \text{Pinion shim thickness.}$$

Determine the appropriate pinion shim using the following pinion gear shim kit (P/N 703 500-048).

THICKNESS	NOTCHES
0.25 mm (0.010 in)	0
0.38 mm (0.015 in)	1
0.51 mm (0.020 in)	2
0.64 mm (0.025 in)	4

Install pinion, shims, bearing and pinion nut. Apply Loctite 243 to nut and torque to 98 N•m (72 lb•ft).

Check if pinion gear teeth and ring gear teeth are equal.

After pinion installation, center ring gear carrier.

Take the half housing with pinion gear. Measure distance between housing edge and the inner ring of bearing. This is measure "G".



Measure the other half housing between housing edge and the inner ring of bearing. This is measure "H".



Section 00 DRIVE TRAIN

Subsection 03 (REAR AXLE)

Measure the edge of half housing. This is measure "J".



Subtract the measure "J" from measure "H" then add the result to "G". Note the result "K".

$$G + (H - J) + K = \text{housing inside length}$$

Measure ring gear carrier length. This is measure "L".



Measure the distance between the end of ring gear carrier and the bearing shoulder. Note the measure "M".



Take the same distance to the other end. This is measure "N".



Add measure "M" from measure "N". Subtract the result from measure "L". Note the result "P".

The result "P" is the length of ring gear carrier between bearings.

$$L - (M + N) = P$$

Subtract result "P" from result "K". At this measure subtract the clearance 0.127 mm (0.005 in). This is the shim thickness.

$$K - P + 0.127 \text{ mm (0.005 in)} = \text{shim thickness.}$$

Bombardier Traxter Service Manual

Huangqi Zhang



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Table of Contents Bombardier Traxter Service Manual

1. Understanding the eBook Bombardier Traxter Service Manual
 - The Rise of Digital Reading Bombardier Traxter Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Bombardier Traxter 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 Bombardier Traxter Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bombardier Traxter Service Manual
 - Personalized Recommendations

- Bombardier Traxter Service Manual User Reviews and Ratings
- Bombardier Traxter Service Manual and Bestseller Lists
- 5. Accessing Bombardier Traxter Service Manual Free and Paid eBooks
 - Bombardier Traxter Service Manual Public Domain eBooks
 - Bombardier Traxter Service Manual eBook Subscription Services
 - Bombardier Traxter Service Manual Budget-Friendly Options
- 6. Navigating Bombardier Traxter Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Bombardier Traxter Service Manual Compatibility with Devices
 - Bombardier Traxter Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bombardier Traxter Service Manual
 - Highlighting and Note-Taking Bombardier Traxter Service Manual
 - Interactive Elements Bombardier Traxter Service Manual
- 8. Staying Engaged with Bombardier Traxter Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bombardier Traxter Service Manual
- 9. Balancing eBooks and Physical Books Bombardier Traxter Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bombardier Traxter Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bombardier Traxter Service Manual
 - Setting Reading Goals Bombardier Traxter Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bombardier Traxter Service Manual
 - Fact-Checking eBook Content of Bombardier Traxter 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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