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› Artudatech Clutch Kit Steel & Friction Plates for Suzuki AX100 A100 AX115 TS100 TC100 RV90 User Manual

Artudatech M203-094~AR

Artudatech Clutch Kit Steel & Friction Plates User Manual

For Suzuki AX100, A100, AX115, TS100, TC100, RV90

1. INTRODUCTION

This manual provides essential information for the proper installation and maintenance of your Artudatech Clutch Kit. Please read these instructions thoroughly before beginning any work to ensure correct procedure and safe operation. This kit is designed to replace the clutch friction and steel plates in compatible Suzuki motorcycle models.

2. PRODUCT OVERVIEW

The Artudatech Clutch Kit consists of high-quality friction plates with tempered steel cores and tempered steel drive plates. These components work together to transmit power from the engine to the transmission, allowing for smooth gear changes and efficient power delivery.

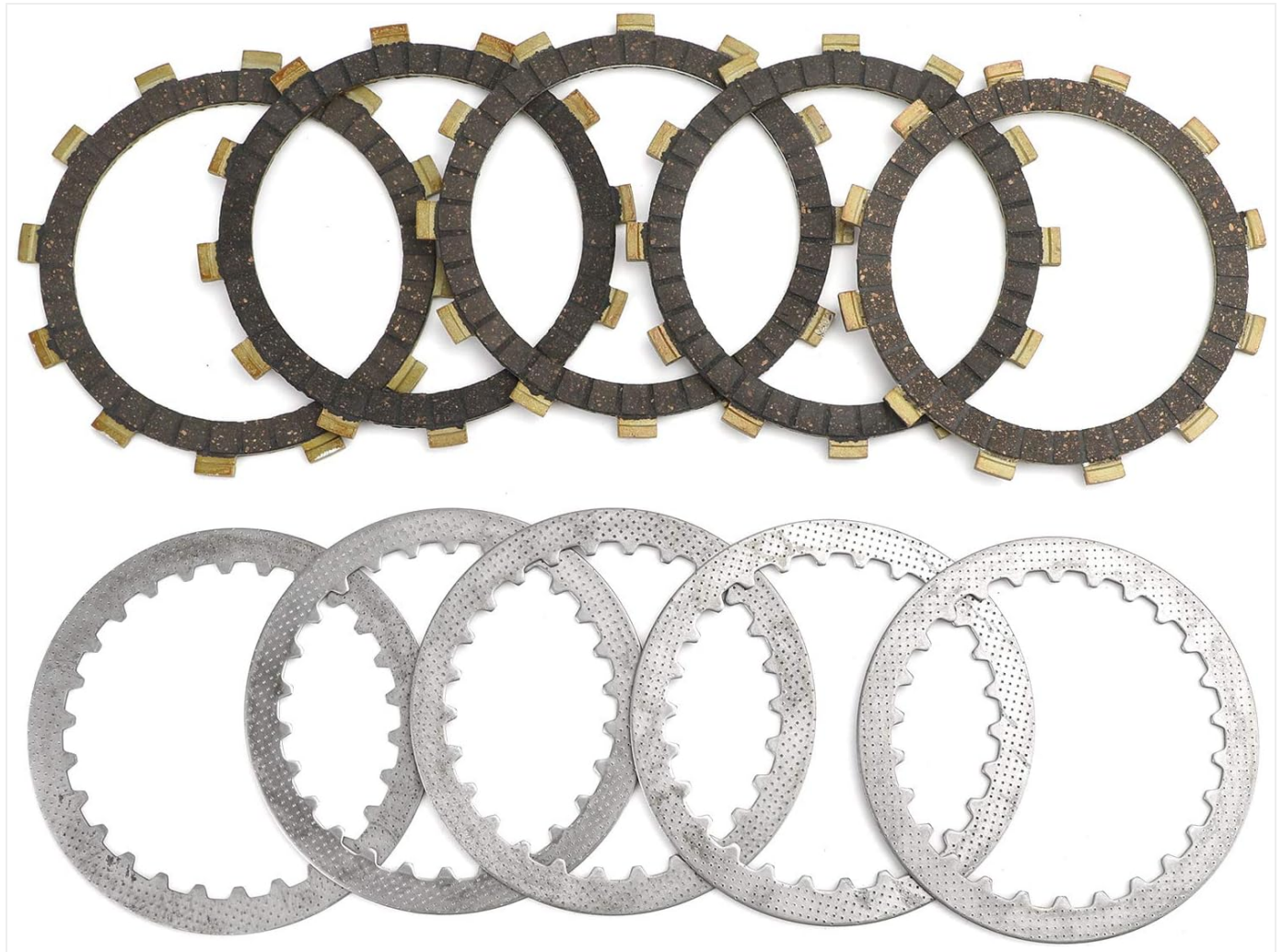


Figure 2.1: Complete Artudatech Clutch Kit showing both steel and friction plates.



Figure 2.2: Four steel separator plates from the kit.



Figure 2.3: Four friction plates from the kit.

3. COMPATIBILITY (FITMENT)

This clutch kit is compatible with the following Suzuki motorcycle models. Please verify your specific model and year before installation.

- Suzuki AX100R (1994)
- Suzuki AX100T (1996)
- Suzuki AX100V (1997)
- Suzuki A100 A100-4 (1988)
- Suzuki A100 A100K (1989)
- Suzuki A100 A100L (1990)
- Suzuki A100 A100M (1991)
- Suzuki A100 A100N (1992)
- Suzuki A100 A100R (1994)
- Suzuki A100 A100S (1995)
- Suzuki AX115 (1998-2000)
- Suzuki TS100M (1975)
- Suzuki TS100L (1974)
- Suzuki TS100K (1973)
- Suzuki TS100B (1977)
- Suzuki TS100A (1976)
- Suzuki TC100M (1975)
- Suzuki TC100L (1974)
- Suzuki TC100K (1973)
- Suzuki TC100B (1977)
- Suzuki RV90K (1973)
- Suzuki RV90M (1975)
- Suzuki RV90J (1972)

- Suzuki RV90L (1974)
- Suzuki RV90A (1976)
- Suzuki RV90B (1977-1988)
- Suzuki TS90J (1972)
- Suzuki TS90 (1970)
- Suzuki TS90R (1971)
- Suzuki TS50R (1971)
- Suzuki TS50L (1974)
- Suzuki TS50K (1973)
- Suzuki TS50J (1972)
- Suzuki TS75B (1977)
- Suzuki TS75M (1975)
- Suzuki TS75A (1976)
- Suzuki TM75M (1975)
- Suzuki TM75L (1974)
- Suzuki TM75A (1976)
- Suzuki AC100
- Suzuki AS100

4. PACKAGE CONTENTS

The Artodatech Clutch Kit includes the following components:

- **5x** Steel Separator Plates
- **5x** Clutch Friction Plates



Figure 4.1: All five steel separator plates and five clutch friction plates included in the kit.

5. SAFETY INFORMATION

Always prioritize safety when working on your motorcycle. Improper installation or handling of clutch components can lead to serious injury or damage to the vehicle.

- **Professional Installation Recommended:** If you are not experienced with motorcycle clutch replacement, it is highly recommended to seek assistance from a qualified mechanic.
- **Refer to Vehicle Service Manual:** Always consult your specific motorcycle's service manual for detailed, model-specific instructions, torque specifications, and safety precautions.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves, during installation.
- **Work in a Well-Ventilated Area:** Ensure adequate ventilation if using cleaning solvents or lubricants.
- **Secure the Motorcycle:** Always place the motorcycle on a stable stand to prevent it from falling during maintenance.
- **Allow Engine to Cool:** Ensure the engine is completely cool before beginning work to prevent burns.

- **Handle Fluids Carefully:** Be prepared to drain and properly dispose of engine oil.

6. SETUP AND INSTALLATION

This section provides general guidance for installing the clutch kit. **Always refer to your motorcycle's specific service manual for detailed, model-specific instructions and torque specifications.**

6.1. Preparation

1. Place the motorcycle on a stable stand.
2. Allow the engine to cool completely.
3. Drain the engine oil into a suitable container.
4. Remove the right-side engine cover (clutch cover) according to your service manual. Be prepared for residual oil to drain.
5. Carefully remove the clutch pressure plate and springs.
6. Remove the old friction and steel plates from the clutch basket. Note their order and orientation.

6.2. Installation of New Plates

1. Inspect the clutch basket for any wear or grooving. Address any issues before installing new plates.
2. Soak the new friction plates in fresh engine oil for at least 30 minutes prior to installation. This helps prevent premature wear and ensures proper lubrication upon initial startup.
3. Install the new friction and steel plates into the clutch basket, alternating them. Typically, an installation begins and ends with a friction plate, but consult your service manual for the exact sequence for your model.
4. Ensure all plates are seated correctly and move freely within the basket.
5. Reinstall the clutch pressure plate and springs. Tighten the spring bolts to the torque specifications provided in your service manual, typically in a crisscross pattern to ensure even pressure.



Figure 6.1: Close-up view of a steel separator plate, highlighting its textured surface for optimal friction.

6.3. Reassembly and Final Checks

1. Reinstall the clutch cover with a new gasket, if required, and tighten bolts to specified torque.
2. Refill the engine with the correct type and amount of engine oil.
3. Adjust the clutch cable free play according to your service manual.
4. Start the engine and check for proper clutch operation. Ensure the clutch engages and disengages smoothly.
5. Check for any oil leaks around the clutch cover.

7. OPERATING CONSIDERATIONS

After installation, proper operation and a brief break-in period can help ensure the longevity and performance of your new clutch kit.

- **Initial Operation:** Test the clutch engagement and disengagement at low speeds in a safe area before riding normally.
- **Break-in Period:** Avoid aggressive acceleration, hard shifting, or excessive clutch slipping for the first 100-200 miles (160-320 km) to allow the new plates to seat properly.

- **Smooth Engagement:** Practice smooth clutch lever operation to minimize wear and maximize clutch life.

8. MAINTENANCE

Regular maintenance helps extend the life of your clutch kit and ensures optimal performance.

- **Clutch Cable Adjustment:** Periodically check and adjust clutch cable free play according to your motorcycle's service manual. Incorrect free play can lead to premature wear or clutch drag.
- **Engine Oil Quality:** Use the recommended engine oil for your motorcycle. Contaminated or incorrect oil can negatively affect clutch performance and life.
- **Inspection:** During routine engine oil changes or other maintenance, inspect the clutch for signs of wear, such as discoloration, glazing, or excessive play.

9. TROUBLESHOOTING

This section addresses common issues that may arise with clutch operation.

Symptom	Possible Cause	Solution
Clutch Slipping	◦ Insufficient clutch cable free play. ◦ Worn friction plates (unlikely with new kit). ◦ Incorrect engine oil type. ◦ Weak clutch springs.	◦ Adjust clutch cable free play. ◦ Verify correct engine oil. ◦ Inspect clutch springs.
Clutch Dragging/Not Disengaging Fully	◦ Excessive clutch cable free play. ◦ Bent or warped steel plates. ◦ Clutch plates sticking together. ◦ Improper installation.	◦ Adjust clutch cable free play. ◦ Inspect plates for damage. ◦ Re-check installation procedure.
Hard Shifting	◦ Clutch dragging. ◦ Low or incorrect transmission fluid/engine oil.	◦ Address clutch dragging issues. ◦ Check and replace engine oil.

If troubleshooting steps do not resolve the issue, consult a qualified mechanic.

10. SPECIFICATIONS

Feature	Detail
Product Type	Clutch Kit (Friction & Steel Plates)
Brand	Artudatech
Material (Friction Plates)	Aramid Fiber on Tempered Steel Cores
Material (Steel Plates)	Tempered Steel
Kit Contents	5x Friction Plates, 5x Steel Separator Plates
Manufacturer Part Number	M203-094~AR
Item Weight	9.9 ounces (approx. 280 grams)
Package Dimensions	5.91 x 5.91 x 1.97 inches (approx. 15 x 15 x 5 cm)

11. WARRANTY AND SUPPORT

Artudatech products are designed for quality and reliability. This clutch kit is an aftermarket product manufactured to provide stable performance.

- **Quality Assurance:** The product undergoes testing to ensure accurate parameters and performance.
- **Customer Support:** If you encounter any problems or have questions regarding the installation or performance of this clutch kit, please contact Artudatech customer support. We are committed to assisting you.
- **Return Policy:** Refer to your purchase platform's return policy for details on returns and exchanges (e.g., 30-day return policy mentioned on Amazon).

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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