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Kawasaki Mule 600/610

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Detailed Service and Repair Procedures

INTRODUCTION

This service manual provides comprehensive instructions for the maintenance, repair, and overhaul of 2005-2016 Kawasaki Mule 600 and 610 side-by-side utility vehicles. It is designed for technicians and experienced mechanics, offering step-by-step procedures, detailed photographs, wiring diagrams, and complete specifications to ensure proper servicing.

Refer to this manual for accurate information regarding your Kawasaki Mule 600 or 610 model.

MODEL COVERAGE

This manual covers the following Kawasaki Mule 600 and 610 Side by Side models from 2005 to 2016:

- **2005:** KAF400-A1, KAF400-B1, KAF400-C1
- **2006:** KAF400-A6, KAF400-B6, KAF400-C6
- **2007:** KAF400-A7, KAF400-B7, KAF400-C7
- **2008:** KAF400-A8, KAF400-B8, KAF400-C8
- **2009:** KAF400-A9, KAF400-B9, KAF400-C9
- **2010:** KAF400-AA, KAF400-BA, KAF400-CA, KAF400-DA (XC)
- **2011:** KAF400-AB, KAF400-BB, KAF400-DB (XC), KAF400-EB (XC)
- **2012:** KAF400-AC, KAF400-BC, KAF400-DC (XC), KAF400-EC (XC)
- **2013:** KAF400-AD, KAF400-BD, KAF400-DD (XC), KAF400-ED
- **2014:** KAF400-AE, KAF400-BE, KAF400-DE (XC), KAF400-EE (XC), KAF400-FE (XC)
- **2015:** KAF400-AF, KAF400-BF, KAF400-DF (XC), KAF400-EF (XC), KAF400-FF (XC)
- **2016:** KAF400-AG, KAF400-BG, KAF400-DG (XC), KAF400-EG (XC), KAF400-FG

CYCLEPEDIA PRESS LLC ***Service Manual***

2005 - 2016 Kawasaki Mule 600/610



Image: Front cover of the Cyclepedia Service Manual for Kawasaki Mule 600/610 models (2005-2016).

SERVICE INFORMATION

This section provides general service guidelines and essential data for all repair procedures.

- **Quick Reference:** Essential information for common tasks.
- **Specifications:** Detailed technical specifications for various components.
- **Torque Specifications:** Correct torque values for fasteners throughout the vehicle.

- **VIN and Engine Number:** Location and interpretation of Vehicle Identification Number and Engine Number.

PREPARING FOR SERVICE

Before commencing any service or repair work, ensure the vehicle is in a safe and stable position. Disconnect the battery to prevent accidental starting or electrical shorts. Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves. Gather all necessary tools and replacement parts as specified in the relevant sections of this manual. Work in a well-ventilated area and be aware of potential hazards like hot engine components, sharp edges, and hazardous fluids.

PERIODIC MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your Kawasaki Mule. This section outlines all scheduled maintenance tasks.

- Periodic Maintenance Chart
- Air Filter Servicing
- Brake Fluid Check and Replacement
- Brake Inspection
- Compression Test Procedures
- Converter Air Cleaner and Housing Maintenance
- Converter Drive Belt and Pulley Shoes Inspection
- Engine Idle Speed Adjustment
- Engine Oil Change and Filter Replacement
- Final Drive / Transmission Oil Servicing
- Fuel System Inspection
- General Lubrication Points
- Bolts, Nuts, and Fasteners Inspection and Tightening
- High Altitude Settings
- Rear Shock Preload Adjustment
- Steering Inspection
- Spark Arrestor Cleaning
- Spark Plug Inspection and Replacement
- Throttle Free Play Adjustment
- Tire Inspection and Pressure Adjustment
- Toe-In Adjustment
- Valve Clearance Adjustment

EXTERNAL COMPONENTS

Instructions for removal, installation, and maintenance of exterior parts.

- Seat Removal and Installation
- Seat Belt Inspection and Replacement
- Control Panel Access and Servicing
- Cargo Components Maintenance
- Guards and Covers Removal/Installation
- Exhaust System Inspection and Repair

- Front and Rear Bars Maintenance
- Fenders Removal and Installation
- Shift Cable Adjustments

ENGINE

Detailed procedures for engine diagnostics, repair, and overhaul.

- Alternator Servicing
- Cylinder Head Removal and Installation
- Valves Inspection and Adjustment
- Valve Lapping Procedures
- Crankcase Cover Removal and Installation
- Oil Pump and Filter Screen Maintenance
- Camshaft and Tappets Inspection
- Piston and Rings Replacement
- Crankshaft and Rod Inspection
- Balancer Shaft Servicing
- Engine Removal Procedures
- Engine Installation Procedures

TRANSMISSION CASE

Instructions for servicing the transmission case and related components.

- Drive Shaft Nut (2WD) Servicing
- Transmission Case Overhaul
- Transmission Shafts Inspection and Replacement

CONVERTER SYSTEM

Maintenance and repair of the torque converter system.

- Converter Air Cleaner Housing Maintenance
- Torque Converter Cover Removal and Installation
- Drive Belt and Pulley Inspection and Replacement
- Drive Pulley Service
- Driven Pulley and Converter Case Servicing

FINAL DRIVE

Procedures for front and rear axles, propeller shafts, and differentials.

- Front Axles Servicing
- Rear Axles Servicing
- Propeller Shafts (4WD) Maintenance
- Front Differential (4WD) Servicing
- Front Differential Overhaul (4WD)
- Front Differential Inspection (4WD)

- Rear Differential Servicing
- Bevel Gears (4WD) Inspection and Replacement
- Bevel Gears Inspection (4WD)

BRAKES

Complete guide to brake system inspection, repair, and bleeding.

- Brake Drums Inspection and Replacement
- Brake Shoes Replacement
- Wheel Cylinders Servicing
- Brake Panels Maintenance
- Master Cylinder Overhaul
- Brake Pedal Adjustment
- Parking Brake Lever and Cables Adjustment and Replacement

FUEL SYSTEM

Maintenance and repair of fuel delivery and emission control components.

- Emissions System Checks
- Airbox Cleaning and Inspection
- Choke Knob and Cable Adjustment
- Carburetor Removal
- Carburetor Disassembly
- Carburetor Assembly
- Carburetor Installation
- Fuel Level Gauge Testing
- Fuel Tank Removal and Installation
- Fuel Pump Testing and Replacement
- Governor Assembly Adjustment
- Throttle Control Panel Servicing

SUSPENSION

Instructions for servicing both front and rear suspension systems.

Front Suspension

- Suspension Arms Inspection and Replacement
- Front Struts (Shock Absorbers) Servicing

Rear Suspension

- Rear Shock Absorbers Servicing
- Rear Swing Arm Inspection and Maintenance

STEERING

Repair and adjustment procedures for the steering system.

- Steering Wheel Removal and Installation
- Steering Shafts Inspection and Replacement
- Steering Knuckles Servicing
- Steering Gear Assembly Maintenance

WHEELS

Information regarding wheel and tire maintenance.

- Wheel Removal and Installation
- Tire Mounting and Balancing (Refer to Periodic Maintenance for inspection)

ELECTRICAL SYSTEMS

Diagnostics and repair for all electrical components and wiring.

- Battery Testing and Maintenance
- Charging System Diagnostics
- Ignition System Troubleshooting
- Starter Motor Servicing
- Starter System Checks
- Fuses Location and Replacement
- Headlights Adjustment and Bulb Replacement
- Lights (Tail, Brake, Turn) Inspection
- Oil Temperature Warning System (4WD) Diagnostics
- Switches Testing and Replacement
- Wiring Diagrams (Detailed schematics for electrical troubleshooting)

POST-SERVICE CHECKS

After completing any service or repair, it is essential to perform thorough checks to ensure proper function and safety. Verify that all fasteners are tightened to specifications, fluids are at correct levels, and no tools or loose parts remain in the vehicle. Test all repaired systems, including brakes, steering, lights, and engine operation, in a safe environment before returning the vehicle to full service. Pay close attention to any unusual noises, vibrations, or warning lights during initial operation.

PARTS DIAGRAMS

Exploded views and part numbers to assist with component identification and ordering.

This section provides visual aids for assembling and disassembling various parts of the Kawasaki Mule 600/610, ensuring correct component placement and identification for replacement parts.

TROUBLESHOOTING

A guide to diagnosing common issues and their potential solutions.

This section helps identify the root cause of operational problems, providing systematic diagnostic steps for various symptoms encountered during vehicle operation or after service.

SPECIFICATIONS

Key technical specifications for the Kawasaki Mule 600/610 service manual.

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WARRANTY AND SUPPORT

This service manual is a reference tool. For specific warranty information regarding your Kawasaki Mule 600/610 vehicle, please consult your vehicle's original owner's manual or contact an authorized Kawasaki dealer. For support related to the content of this service manual, please refer to the publisher, Cyclepedia Press LLC. Contact details are typically found within the manual's introductory pages or on the publisher's official website.