

Allison Transmission Mt654 Repair Manual

Allison Transmission Mt654 Repair Manual Allison Transmission MT654 Repair Manual This manual provides comprehensive information for repairing and maintaining the Allison MT654 transmission. The MT654 is a robust and reliable automatic transmission designed for heavy-duty applications. Understanding the intricacies of its design and operation is crucial for ensuring optimal performance and longevity.

1 Overview of the MT654 Transmission

The MT654 is a six-speed fully automatic transmission with a torque converter and electronic controls. It is a popular choice for medium-duty trucks, buses, and specialized vehicles.

Key Features

- Durable Construction:** Utilizes heavy-duty components for increased durability and long service life.
- Smooth Shifting:** Electronic controls ensure smooth and efficient gear changes.
- High Torque Capacity:** Designed to handle high torque output from diesel engines.
- Multiple Operating Modes:** Offers different operating modes to optimize performance for various applications.

Applications

The MT654 is suitable for Medium-duty trucks, Buses, Refuse trucks, Fire trucks, Construction equipment, and Other heavy-duty vehicles.

2 Transmission Components

- Torque Converter:** Transfers engine power to the transmission while providing torque multiplication and smooth engagement.
- Clutch Packs:** Responsible for engaging and disengaging gears within the transmission.
- Gear Train:** Consists of various gears that transmit power to the output shaft and provide different gear ratios.
- Hydraulic System:** Provides pressure for clutch actuation, gear selection, and cooling.
- Electronic Control Unit (ECU):** Monitors and controls the transmission's operation based on 2 inputs from various sensors.

Sensors

Measure various parameters like engine speed, vehicle speed, transmission fluid temperature, and hydraulic pressure.

3 Operating Principles

- Gear Selection:** The ECU determines the optimal gear based on vehicle speed, engine load, and other factors.
- Clutch Actuation:** The ECU controls hydraulic pressure to engage and disengage clutch packs, selecting the appropriate gear.
- Torque Converter Lockup:** When operating at higher speeds, the torque converter locks up, eliminating slip and improving fuel efficiency.
- Shift Scheduling:** The transmission uses a sophisticated shift scheduling system to optimize performance and minimize wear and tear.

4 Troubleshooting and Diagnosis

Common Problems

- Transmission slipping
- Harsh shifting
- Transmission fluid leaks
- Electrical faults
- Transmission overheating

Diagnostic Tools

Allison Electronic Technician (AET) Scan tools, Pressure gauges, Temperature gauges, Leak detection equipment.

Troubleshooting Steps

- Gather information about the symptoms, vehicle history, and operating conditions.
- Inspect for fluid leaks, damaged components, and loose connections.
- Use diagnostic tools to retrieve fault codes and monitor sensor readings.
- Perform functional tests to verify transmission operation.
- Analyze data and pinpoint the root cause of the problem.

5 Repair Procedures

Preparation

- Disconnect battery and remove transmission.
- Ensure proper workspace, tools, and safety equipment.
- Follow all safety precautions outlined in the manual.

Fluid and Filter Replacement

Use Allison-approved transmission fluid. Replace filters and seals as needed.

Clutch Pack Replacement

Inspect clutch packs for wear, damage, or contamination. Replace clutch packs as needed, ensuring correct installation.

Gear Train Inspection

Inspect gears for wear, damage, or misalignment. Replace damaged gears or rebuild the gear train.

Hydraulic System Inspection

Inspect hydraulic system components for leaks, blockages, or damage. Replace or repair damaged components.

Electronic Control Unit (ECU) Diagnosis

Inspect ECU for damage or malfunction. Use diagnostic tools to test ECU operation. Replace ECU if necessary.

Reassembly and Testing

Reassemble transmission components carefully. Fill transmission with fluid and check for leaks. Test transmission operation before installing it in the vehicle.

6 Maintenance Schedule

Regular Maintenance

- Check transmission fluid level and condition at regular intervals.
- Replace transmission fluid and filter according to manufacturer's recommendations.
- Inspect external components for damage or leaks.

Preventive Maintenance

Perform inspections and fluid changes more frequently in harsh operating conditions. Replace worn or damaged components before they cause major problems.

7 Safety Precautions

Safety Glasses

Wear safety glasses to protect your eyes from flying debris.

Gloves

Wear gloves to protect your hands from sharp edges and hot components.

Proper Lifting Techniques

Use proper lifting techniques to avoid injury.

Fire Extinguisher

Keep a fire extinguisher nearby.

8 Electrical Safety

Disconnect battery before working on electrical components.

9 Fluid Handling

Handle transmission fluid carefully to avoid contamination.

10 Technical Specifications

Model MT654

- Gear Ratios:** 6 speeds.
- Torque Capacity:** Varies depending on engine.
- Fluid Type:** Allison TES295 or equivalent.
- Fluid Capacity:** Varies depending on application.

11 Warranty Information

Warranty Coverage

Consult the manufacturer's warranty information for details on coverage and limitations.

Warranty Claims

Follow the manufacturer's procedures for filing warranty claims.

Conclusion

The Allison MT654 transmission is a high-performance and durable

component that requires proper maintenance and repair procedures to ensure optimal performance This manual provides essential information for technicians to diagnose repair and maintain the MT654 transmission ensuring its longevity and reliability By following the instructions and safety precautions outlined in this manual you can ensure the safe and efficient operation of your vehicle

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xlwb 5 m929 a1 a2 dump truck wo w 6 m930 a1 a2 dump truck w w 7 m931 a1 a2 tractor truck
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climate conditions 2 the m929 a1 a2 and m930 a1 a2 series dump trucks are used to transport
various materials over a variety of terrains each vehicle can be equipped with troop seat and
tarpaulin and bow kits for troop transport operations 3 the m931 a1 a2 and m932 a1 a2 series
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