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Technical Precision TZ-ESC1-K

Instruction Manual

**TECHNICAL PRECISION REPLACEMENT FOR FREIGHTLINER FL120 CLASSIC YEAR 2009 STANDARD
FLOW RETURN FLOW SPLITTER**

Model: TZ-ESC1-K

PRODUCT OVERVIEW

This document provides essential information for the installation, operation, and maintenance of the Technical Precision Standard Flow Return Flow Splitter, designed as a direct replacement for the Freightliner FL120 Classic, model year 2009. This component is crucial for managing fluid flow within the vehicle's system, ensuring proper function and efficiency.

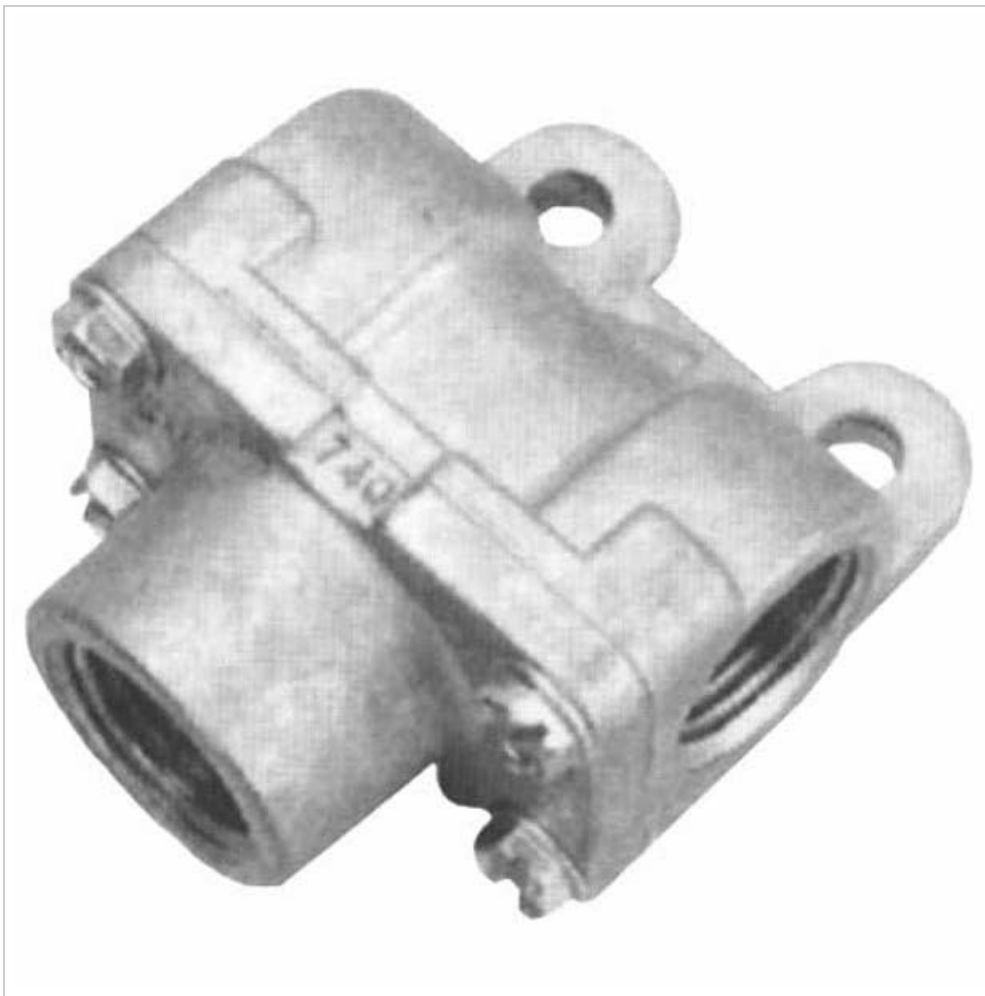


Figure 1: Technical Precision Standard Flow Return Flow Splitter. This image shows the metallic splitter component with threaded ports for fluid connections and mounting holes for secure installation. The number "740" is visible on its side.

SAFETY INFORMATION

- Always ensure the vehicle's engine is off and the system is depressurized before beginning any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation.
- Refer to the vehicle's official service manual for specific procedures and torque specifications related to the Freightliner FL120 Classic.
- If you are unsure about any step, consult a qualified mechanic.
- Dispose of old components and fluids responsibly according to local regulations.

SETUP AND INSTALLATION

This splitter is designed as a direct replacement. Follow the vehicle manufacturer's guidelines for removal of the old component and installation of the new one.

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and turn off the engine. Allow the system to cool down if it has been recently operated.
2. **Access:** Locate the existing standard flow return flow splitter on your Freightliner FL120 Classic (Year 2009). This may require removing other components for access.
3. **Fluid Drainage (if applicable):** If the system contains fluids that will be released during removal, ensure proper

containment and disposal methods are in place.

4. **Disconnect Connections:** Carefully disconnect all fluid lines and electrical connections (if any) from the old splitter. Note their positions for correct re-connection.
5. **Remove Old Splitter:** Unbolt and remove the old splitter from its mounting location.
6. **Install New Splitter:** Position the Technical Precision replacement splitter in the correct orientation. Secure it using the appropriate fasteners. Ensure all mounting points are aligned.
7. **Reconnect Connections:** Reconnect all fluid lines and electrical connections to the new splitter. Ensure all connections are secure and properly sealed to prevent leaks.
8. **System Refill/Bleed (if applicable):** Refill any drained fluids and bleed the system as per the vehicle manufacturer's specifications to remove air.
9. **Leak Check:** Start the engine and carefully inspect all connections for any signs of leaks. Address any leaks immediately.
10. **Final Assembly:** Reinstall any components that were removed for access.

OPERATING INSTRUCTIONS

The Technical Precision Standard Flow Return Flow Splitter operates passively as part of the vehicle's fluid management system. Once correctly installed, it functions automatically to direct fluid flow as designed by the vehicle manufacturer. No user interaction is required for its operation.

MAINTENANCE

This component is generally maintenance-free. However, regular inspection of the surrounding fluid lines and connections is recommended during routine vehicle maintenance to ensure there are no leaks or signs of wear.

- **Visual Inspection:** Periodically check the splitter and its connections for any signs of corrosion, damage, or fluid leaks.
- **Connection Integrity:** Ensure all hoses and fittings connected to the splitter remain tight and secure.
- **Cleaning:** If necessary, gently clean the exterior of the splitter with a soft cloth to remove dirt or debris. Avoid using harsh chemicals.

TROUBLESHOOTING

As a passive component, direct troubleshooting of the splitter itself is limited. Most issues will manifest as symptoms in the overall fluid system.

Symptom	Possible Cause	Solution
Fluid Leakage around Splitter	Loose connections, damaged seals, cracked housing.	Tighten connections. Inspect and replace seals if necessary. If housing is cracked, replace the splitter.
Incorrect System Pressure/Flow	Blockage within the splitter, incorrect installation, issue with other system components.	Verify correct installation. Check for blockages (rare for a new part). Consult vehicle service manual for system-wide diagnostics.
Unusual Noises from Area	Loose mounting, vibration.	Ensure splitter is securely mounted. Check for contact with other components.

If issues persist after basic troubleshooting, it is recommended to consult a certified automotive technician or refer to the Freightliner FL120 Classic service manual for detailed diagnostics.

SPECIFICATIONS

Attribute	Detail
Product Type	Standard Flow Return Flow Splitter
Compatibility	Freightliner FL120 Classic, Year 2009
Brand	Technical Precision
Model Number	TZ-ESC1-K
Manufacturer	Technical Precision
ASIN	B0DYF6KZMF
Unit per Sale	1
First Available Date	February 15, 2025

WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your Technical Precision replacement part, please contact the manufacturer directly or refer to the purchase documentation. Specific warranty terms may vary.

Manufacturer Contact: Please refer to the contact information provided with your purchase or visit the official Technical Precision website for support details.

Online Resources: For additional information or to view other products, visit the [Technical Precision Store on Amazon](#).

