
Allison Automatic Transmission Troubleshooting Guide

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Allison Transmission Fault Codes, Troubleshooting - Wiring ...

Allison Transmission 3000/4000 series fault code list ...

2009 Allison 3000 Series Automatic Transmission Stuck in First Gear Allison trans issues **Allison mt654cr won't upshift** Chevrolet 2500HD 6.6: Allison Transmission Won't Shift P2669 **Allison 5 speed TCM common issues and fix Allison 1000**

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What Are Typical Problems of an Allison Transmission?

Allison Transmission Home

SECTION 5—DIAGNOSTIC TROUBLE CODES (DTC)

3000 AND 4000 ELECTRONIC CONTROLS TROUBLESHOOTING MANUAL ...

Troubleshooting Tips - Servicing Allison transmissions and ...

3 Common Allison Transmission Problems | Copeland ...

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Allison Automatic Transmission Troubleshooting Guide

Allison provides all of our technicians with the right tools specified for your Allison Automatic, as well as extensive knowledge through our online service tools portals. When it comes to diagnostics or preventative maintenance, Allison's electronic diagnostic system, Allison DOC Universal, is critical in making the right call.

What Are Typical Problems of an Allison Transmission?

1) Limp Mode (Allison 1000 Model) The Allison transmission 1000 model has a feature called "limp mode", in which the transmission locks itself into third gear. This mode is triggered by anything that could cause severe damage to the transmission, including severe overheating or towing a very

heavy load.

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SECTION 5—DIAGNOSTIC TROUBLE CODES (DTC)

3000 AND 4000 ELECTRONIC CONTROLS TROUBLESHOOTING MANUAL ...

Abnormal shifts in an Allison transmission happen during shifting at high and low speeds. At high shifting, this problem may be caused by a malfunctioning governor valve, leaking vacuum hose or broken mechanical actuator cable. A loose valve spring adjustment or stuck modulator valve causes problems during low and rough shifting.

Troubleshooting Tips - Servicing Allison transmissions and ...

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Common Allison Transmission Problems. Modern transmissions are computer controlled, but if you are working on your tank (they made transmissions for them in WWII) or your classic vehicle you may wish to take a look at the vacuum lines . If it's shifting to early and bogging, you may have it in the wrong port.

Allison Automatic Transmission Wiring & Troubleshooting The Allison Transmission Control Unit on the 1999 Saf-T-Liner is located under the floor directly below the driver. There are 3 plug-ins which is an easy way to tell this is a W-TEC 3 system [World Transmission Electronic Unit 3rd generation]. The Transmission vehicle speed signal enters here and exits at two different plugs, one for the speedometer and the other to the Cummins ISC ECU.

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