

Technical Service Information



TSI-04-13-02

Date: January, 2004

Subject File: TRANSMISSION

Subject: New Fault Code 92 for Eaton AutoShift Transmission with System Controller Version 800, 801, or Greater

Model: 5500i

Model: 5600i

Model: 5900i

Model: 9200i

Model: 9400i

Model: 9900i

Unit Code: 13GMV

Unit Code: 13GNR

Unit Code: 13GNT

Unit Code: 13GNU

Unit Code: 13GNV

Unit Code: 13GNW

DESCRIPTION

NOTICE

The information supplied herein has been furnished by the manufacturer and/or the supplier for use with its product. International Truck and Engine Corporation reprints this information based on representations made to the Company by the manufacturer and/or supplier and is not responsible for any errors or mishaps resulting from such errors or from any misuse of the product. Every user is urged to carefully follow the instructions which accompany the product. Please refer to Eaton Bulletin TAIB-0805, which provides information on Fault Code 92.

Date: November 12, 2003

TAIB-0805

Bulletin Type: Service

Topic: Addition of Fault Code 92

Issue/Background:

Weak system battery voltage can cause Autoshift to inhibit shifting if voltage falls below 9 volts. When this occurs the driver may have a complaint but no codes are present when the truck is brought in for service.

Correction/Action:

Addition of Fault Code 92. Fault Code 92 will be set if System battery voltage falls below 9 volts for 10 seconds. Fallback mode will be in place. Service light will not flash.

Timing:

For System controller Version 800 and 801 or greater.

Warranty Strategy:

Troubleshoot Fault Code 92 as needed per the attached Troubleshooting procedure. Troubleshooting procedure can also be found in the Troubleshooting Guide TRTS-0062. Eaton Warranty is not responsible for the diagnostic or repair time involved with this code. This code detects a non-Eaton system or component that is adversely affecting the operation of the transmission.

System Code: 92 (SID 168, FMI 14) Weak System Battery Voltage

Overview

This fault code indicates that the vehicle is supplying weak battery voltage to the transmission.

Detection

The fault is detected when vehicle battery voltage is below 9 volts for a period of at least 10 seconds.

Fallback

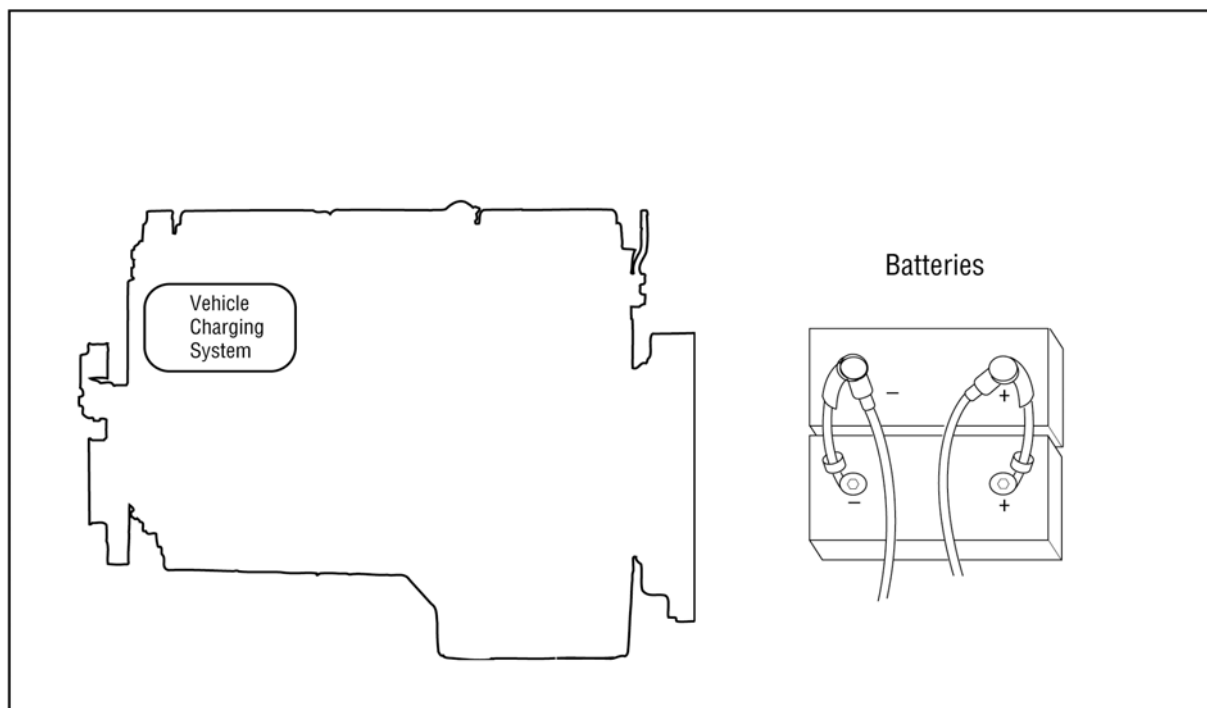
If this fault occurs while moving, it causes an inplace fallback. Once the vehicle is stopped, the starting gear and reverse can be engaged.

Required Tools

- Basic Hand Tools
- Troubleshooting Guide

Possible Causes

This fault code can be caused by any of the following:
Vehicle charging system or battery integrity



Fault Isolation Procedures

Code 92(SID 168, FMI 14), Weak System Battery Voltage Test

| Step A | Procedure | Condition | Action |
|--------|--|--|--|
| | <ol style="list-style-type: none"> Key off. If fault code 92 is present, inactive or active. Inspect vehicle charging system and battery integrity to ensure battery voltage does not drop below 9 volts during normal operation. | | |
| | | <div>→</div> <div>If no problem found</div> <div>If problem is found</div> | <div>→ Go to Step V.</div> <div>→ Repair vehicle charging system and or battery integrity. Go to Step V.</div> |

| Step V | Procedure | Condition | Action |
|--------|---|---|---|
| | <ol style="list-style-type: none"> Key on. Clear codes (see page 1-3). Use Driving Techniques to attempt to reset the code (see page 1-4). Check for codes (see | | |
| | <div>→</div> <div>page 1-3).</div> | <div>If no codes</div> <div>If code 92 appears</div> <div>If code other than 92 appears</div> | <div>→ Test complete.</div> <div>→ Return to Step A to find error in testing.</div> <div>→ Go to Fault Code Isolation Procedure Index (see page 1-9).</div> |

Code 92
(SID 168, FMI 14)