

**SB-10041401-2632**

**Countries:** AUSTRALIA, BRAZIL, CANADA, UNITED STATES, MEXICO, SOUTH AFRICA  
**Availability:** ISIS, FleetSIS, Body Builder  
**Major System:** TRANSMISSION  
**Current Language:** English  
**Other Languages:** [Français](#), [Español](#),  
**Viewed:** 331

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**Revision:** 3  
**Created:** 4/20/2012  
**Last Modified:** 4/28/2012  
**Author:** Anthony Kelso

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Coding Information

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**Title: Eaton Code 21 circuit operation,diagnosis and switch location**
**Applies To: Auto Neutral Park Brake Switch**
**DESCRIPTION**

The Auto Neutral Park Brake switch is a normally closed switch, when the park brake is off you should have less than .4 ohms between TCM pins 19 and 33. The switch will be open when the park brake is on.

When park brake is applied while the transmission is in drive :

- The switch opens the circuit to the TCM
- Shifter will display "AN" and TCM will shift to neutral
- Shifter will continue to display "AN" until the park brake is released. To clear "AN" from the display the driver must shift to Neutral and then to Drive.

This is a hardwired circuit from the switch to TCM pins 19 and 33. If a problem is suspected in this circuit monitor Park Brake Switch Status using Service Ranger and refer to the circuit diagram below.

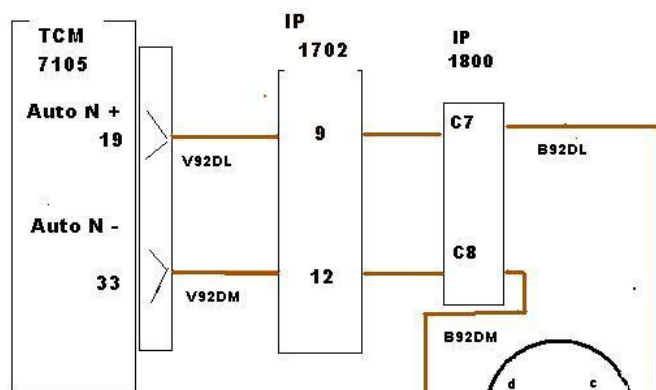
Connector 1814 Terminal #'s **3594831C1** - Seal/Sleeve **1661872C1**- Connector **1661777C1** -Body lock **1661873C1**

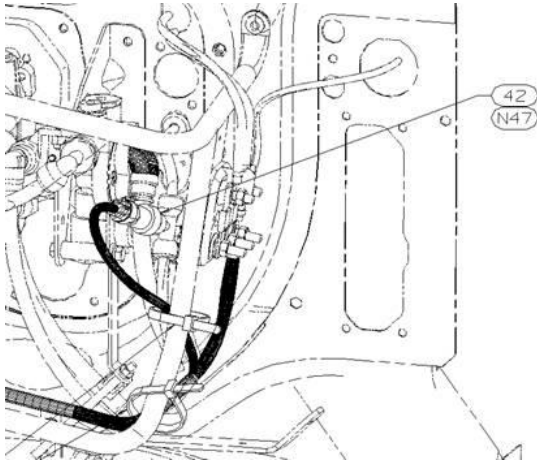
**POSSIBLE DIAGNOSTIC TROUBLE CODES**

DTC	SPN	FMI	MODULE	DESCRIPTION
21	70	14	TCM	Auto Neutral Park Brake Switch

**PARTS INFORMATION**

Part #	Description	Qty.
2035007C2.	Auto Neutral Park Brake Switch	1

**CIRCUIT DIAGRAMS**

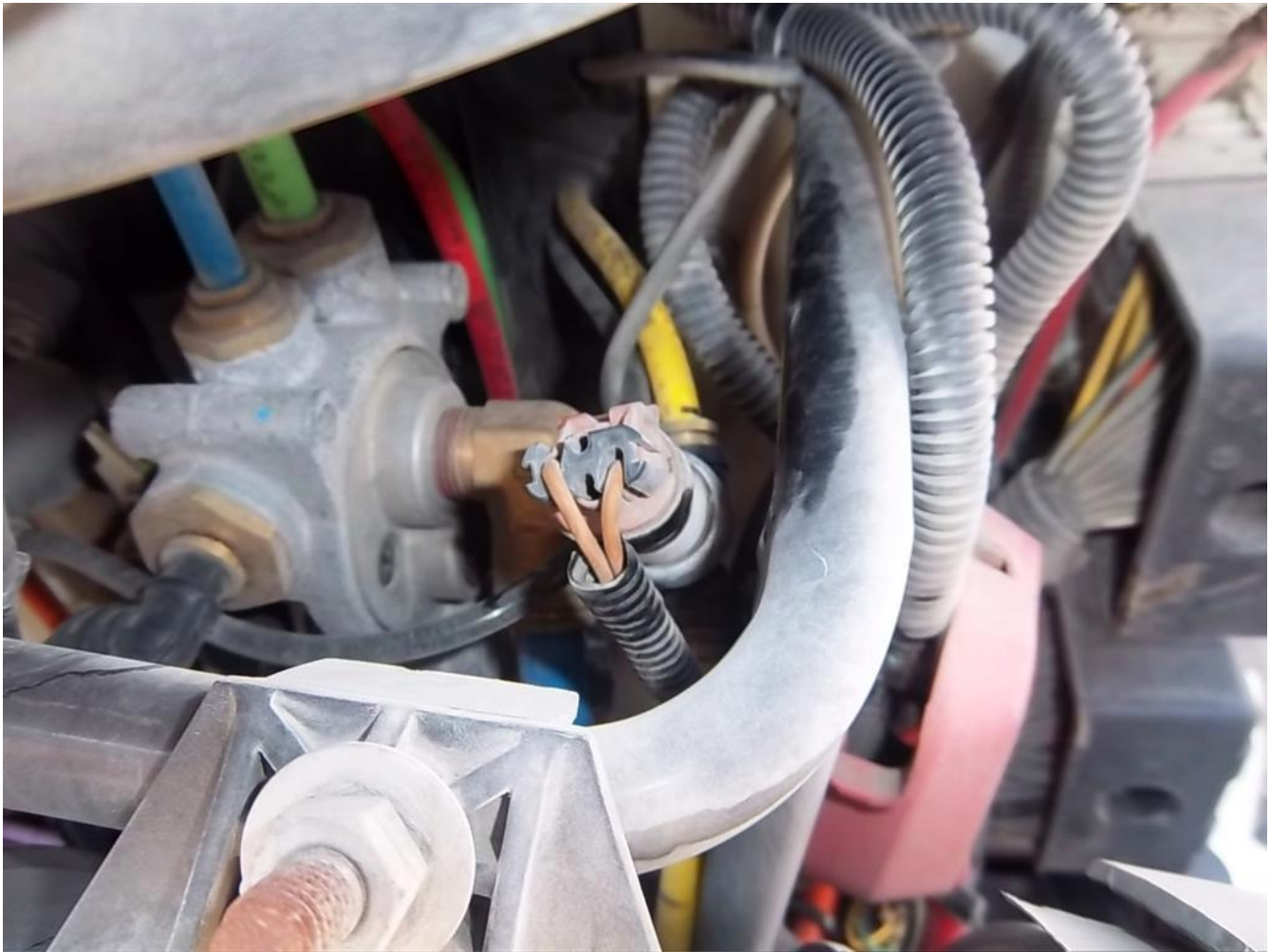


VV REF #1814		
1661777C1		
CAV	CIR	B/O
C	VV92DL	G9
D	VV92DM	G9



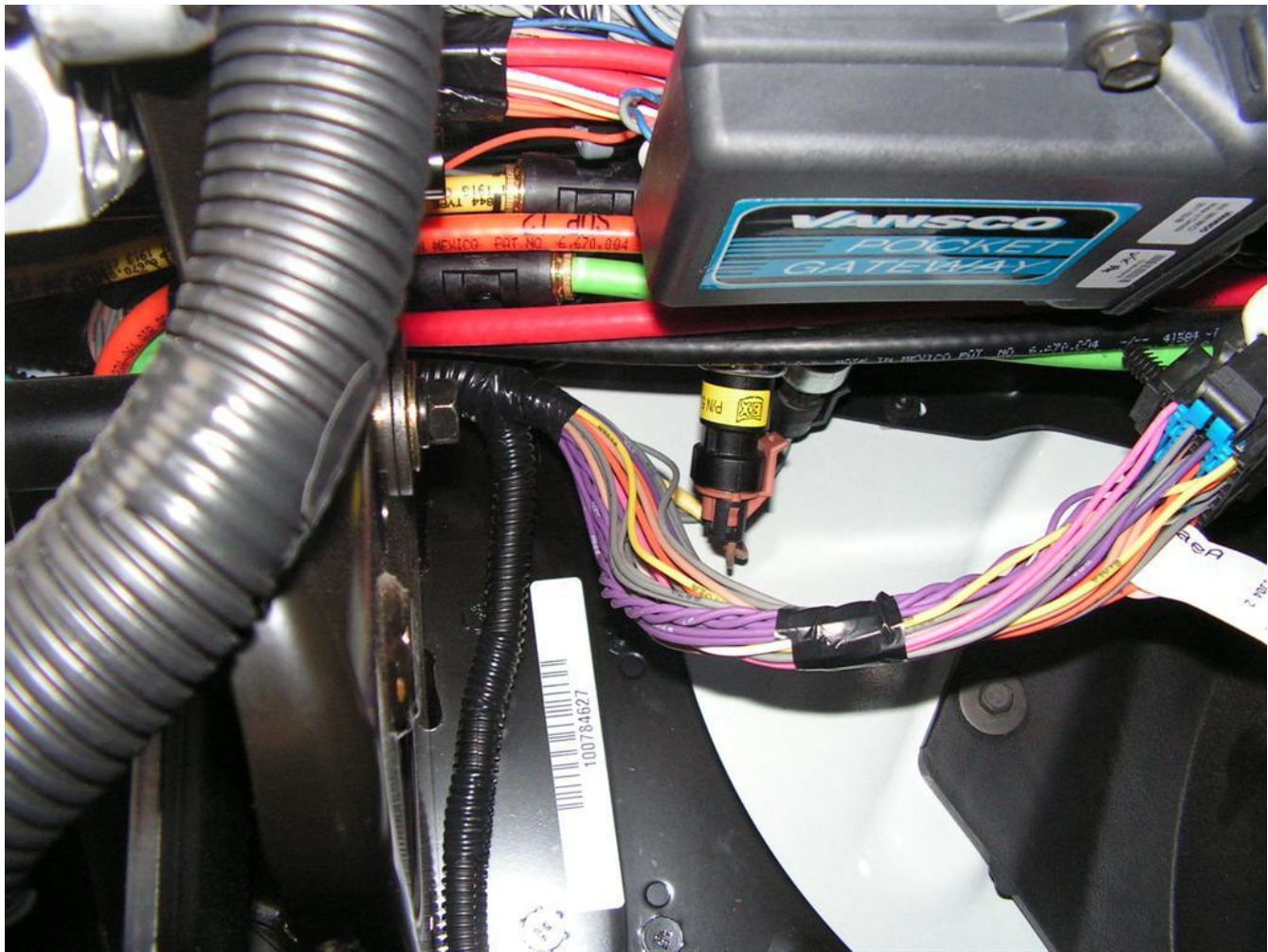
[Prostar/Lonestar location outside cab](#)

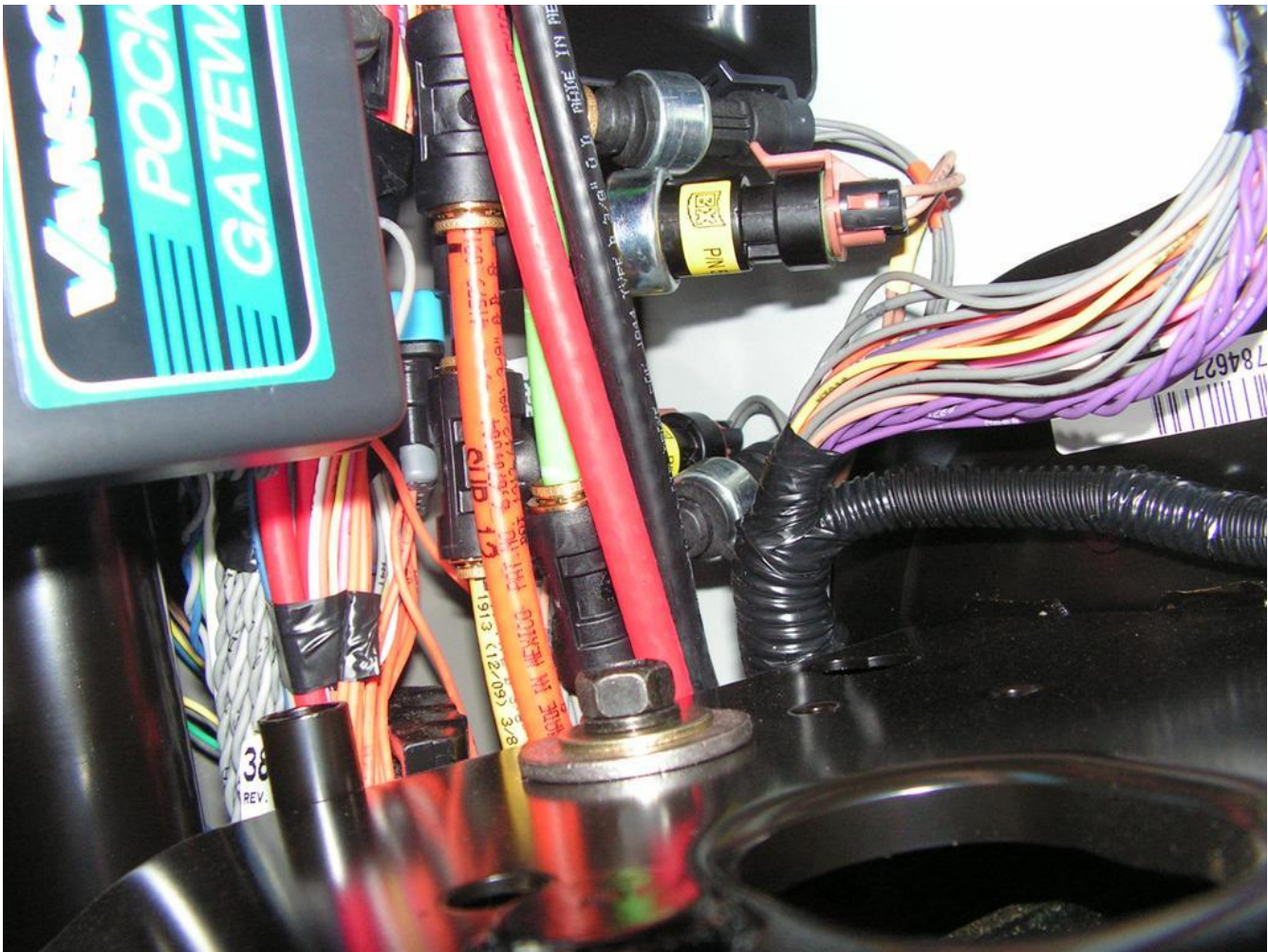




**TRANSSTAR** Location inside cab, Above pedals





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