



## **SERVICE BULLETIN NZ SB139**

**Date: 29<sup>th</sup> August, 2007**

**To: Snorkel Product owners, Snorkel Dealers**

**Attention: Service Managers**

**Units affected: All SR2770 Scissorlifts fitted with Auto Levelling Stabilisers built between April 2003 and August 2006**

### **MANDATORY INSPECTION**

Inspect control cable from upper control box for damage and wear. Inspect all cable clamps for damage and ensure that the insulating rubber is in good condition.

This is due to the possibility of wires coming in contact with scissor arms and clamps as a result of damage caused to the outer casing of the cable. Stabilizer leg valves use the negative voltage to switch on and off. If these wires come in contact with the frame or clamps there is a possibility for the valves to be energised, causing an uncontrolled movement of the stabilizers, which could in turn tip the machine over.

### **MANDATORY UPGRADE**

This Bulletin is to inform you of a field modification that is required on all SR2770s built between April 2003 and August 2006 that are fitted with "auto levelling stabilisers".

A modification is required to the wiring on these machines to prevent the Stabiliser control valve from receiving a 12 volt "feed" whilst the scissor platform is raised above the stowed limit switch.

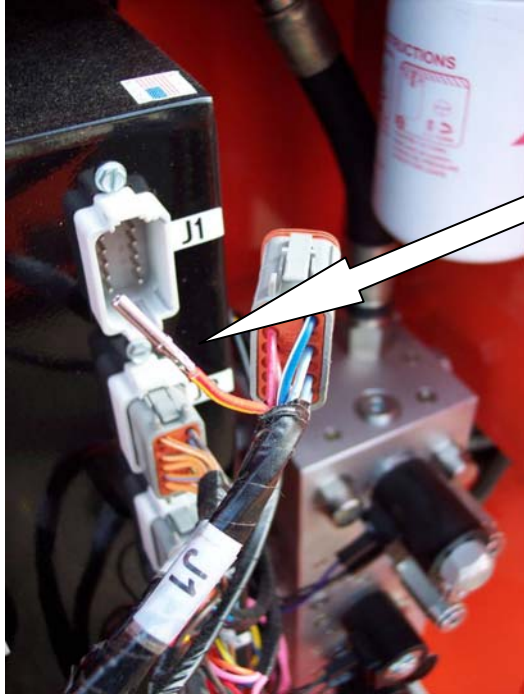
**IMPORTANT**

Note: Automatic levelling stabilisers were fitted as standard on all SR2770's built after April 2003, but only those built between April 2003 & August 2006 are affected by this upgrade.

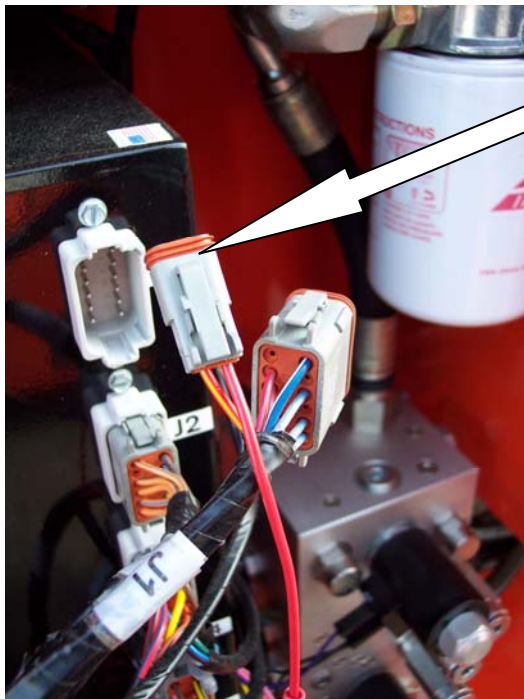
Some machines built prior to April 2003 may have had this option "retro fitted" in the field, so please ensure that all SR2770's fitted with auto levelling stabilisers prior to August 2006 have this modification carried out.

The following installation procedure should be read and understood by the serviceman prior to carrying out the modifications.

## Installation Procedure – SR2770 Auto Stabiliser upgrade



Remove wire #6 from plug J1

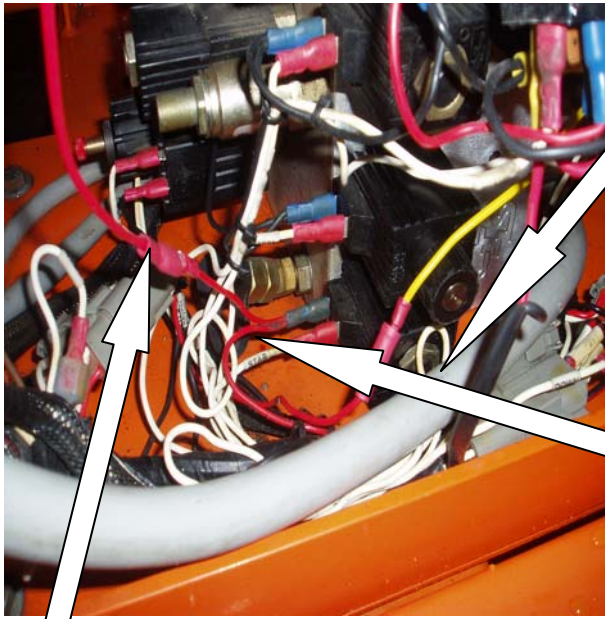


Plug the wire that was in J1-6 into the 2 pin plug supplied

Plug the white jumper wire on the two pin supplied into pin hole #6 on J1 and plug the halves of the jumper plug together



Locate the stabilizer valve at the base of the main valve block.



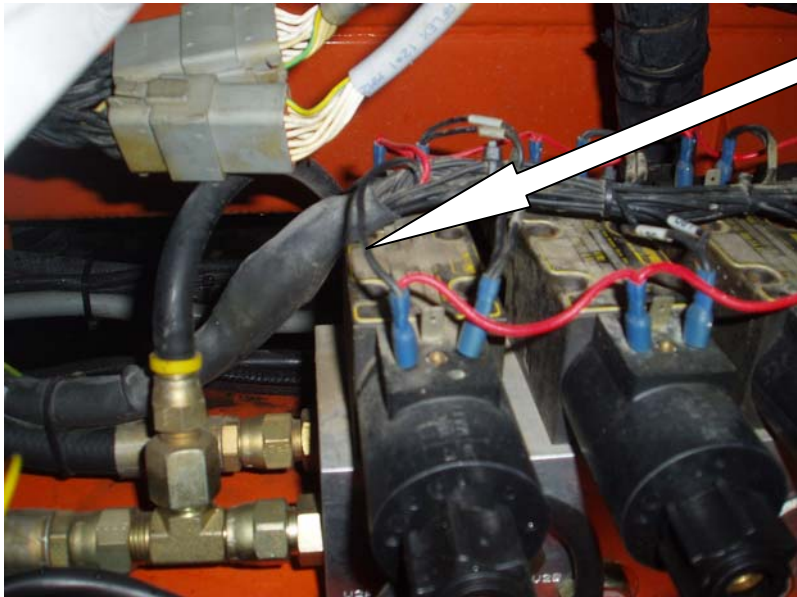
Locate the twin RED wires on the Stabilizer valve coil. Trace these two RED wires and cut the wire that goes around into a three pin Deutsch plug, about half way between this plug and the valve coil.

Crimp a male bullet terminal onto the red wire that goes back into the stabiliser loom and plug the red wire from the jumper plug into it.

Crimp a male bullet terminal onto the red wire that goes to the three pin Deutsch Plug and attach the yellow wire.



At the stabilizer manifold, locate where wire #9 is crimped together with the RED wire and cut wire # 9 off flush with the terminal.







Crimp the male bullet terminal supplied onto wire 9 and plug it in the other end of the yellow wire supplied. Tie the yellow wire back so it runs with the existing looms, the mod is now complete.

Carry out the following test to prove that the mod has been successful;

1. Using the ATUO STABILIZER set all stabilizers insuring that there is sufficient weight to activate all four pressure switches. (If the Auto Levelling Systems fails to operate, the wiring mod has been installed incorrectly. Recheck your wiring)
2. Raise platform until lowered platform switch has been de-energized.
3. Using a meter check for 12volt battery positive power on the RED wires on all of the stabilizer coils.
4. **There should be no power while this unit is in this position.**
5. If you do find battery voltage, check all wiring and switches. **DO NOT OPERATE MACHINE UNTIL PROBLEM IS RECTIFIED.**

If you are in any doubt call your nearest Snorkel Service department or agent.