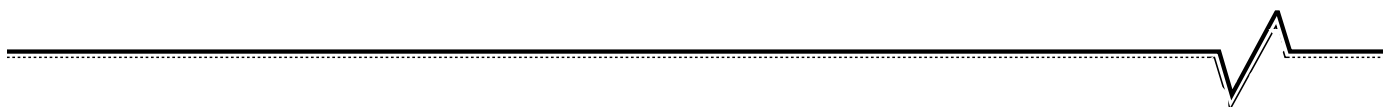
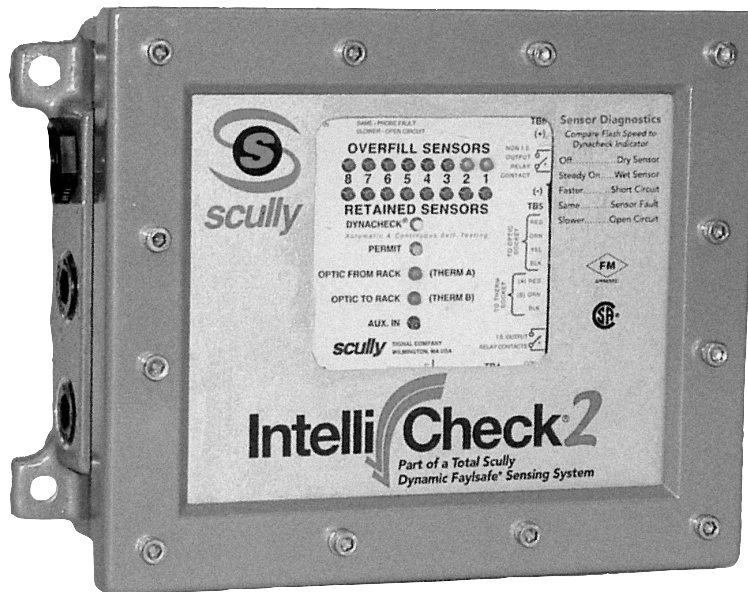




# IntelliCheck® and IntelliCheck®2

## Diagnostic Troubleshooting Procedures



# Table of Contents

**Section 1      Troubleshooting Procedure 1 ..... 3**  
                     • No Indicator Lights

**Section 2      Troubleshooting Procedure 2 ..... 4**  
                     • No Permit Light

**Section 3      Troubleshooting Procedure 3 ..... 5**  
                     • Overfill Indicator Lights On  
                     • SP-TO 2 Wire Optic Operation

**Section 4      Troubleshooting Procedure 4  
                     (2 Wire Operation) ..... 7**  
                     • Overfill Indicator Lights Flashing  
                     • Flashing Faster Than Dynacheck®

**Section 5      Troubleshooting Procedure 4A  
                     (2 Wire Operation) ..... 8**  
                     • Overfill Indicator Lights Flashing Slower Than Dynacheck

**Section 6      Troubleshooting Procedure 4B  
                     (2 Wire Operation) ..... 9**  
                     • Overfill Indicator Lights Flashing At The Same Speed As Dynacheck

**Section 7      Troubleshooting Procedure 4C  
                     (2 Wire Operation) ..... 10**  
                     • All Overfill Indicator Lights Flashing At The Same Speed As The  
    Dynacheck Indicator

**Section 8      Troubleshooting Procedure 5 ..... 11**  
                     • Retain Indicator Lights On

**Section 9      Troubleshooting Procedure 6 ..... 12**  
                     • Retain Indicator Lights Flashing  
                     • Flashing Faster Than Dynacheck

**Section 10     Troubleshooting Procedure 6A ..... 13**  
                     • Retain Indicator Lights Flashing Slower Than Dynacheck



**Section 11 Troubleshooting Procedure 6B ..... 14**  
 • Retain Indicator Lights Flashing At The Same Speed As Dynacheck

**Section 12 Troubleshooting Procedure 7 ..... 15**  
 • AUX Indicator Light On

**Section 13 Troubleshooting Procedure 8 ..... 17**  
 • Overfill Indicator Lights On (SP-FU 5 Wire Operation)

**Section 14 Troubleshooting Procedure 9  
 (5 Wire Operation) ..... 19**  
 • Overfill Indicator Lights Flashing  
 • Flashing Faster Than Dynacheck

**Section 15 Troubleshooting Procedure 9A  
 (5 Wire Operation) ..... 20**  
 • Overfill Indicator Lights Flashing Slower Than Dynacheck

**Section 16 Troubleshooting Procedure 9B  
 (5 Wire Operation) ..... 22**  
 • All Overfill Indicator Lights Flashing Slower Than Dynacheck

**Section 17 Troubleshooting Procedure 9C  
 (5 Wire Operation) ..... 24**  
 • Overfill Indicator Lights Flashing At The Same Speed As Dynacheck

**Section 18 Troubleshooting Procedure 9D  
 (5 Wire Operation) ..... 25**  
 • All Overfill Indicator Lights Flashing At The Same Speed As The  
 Dynacheck Indicator

**Section 19 Troubleshooting Procedure 10 ..... 26**  
 • IntelliCheck Indicators Are OK, But Vehicle Can Not Load



# Section 1 Troubleshooting Procedure 1

**Symptom:** No indicator lights on

**Possible Cause:** Defective module  
Blown in-line fuse  
Open power connections from nose plug/battery  
Open ground connections from nose plug/battery  
Shorted power and ground connection from nose plug/battery

---

**STEP 1**

**Measure voltage at TB1.**

Do you have between 11 and 14.0 volts DC?

<b>YES</b> Module is defective.	<b>NO</b> Proceed to Step 2.
------------------------------------	---------------------------------

---

**STEP 2**

**Measure voltage from TB1 (+) to vehicle chassis.**

Do you have between 11 and 14.0 volts DC?

<b>YES</b> Repair bad ground connection from nose plug/battery to TB1.	<b>NO</b> Proceed to Step 3.
---	---------------------------------

---

**STEP 3**

**Disconnect wires from TB1 and measure voltage across wires.**

Do you have between 11 and 14.0 volts DC?

<b>YES</b> Replace module.	<b>NO</b> Proceed to Step 4.
-------------------------------	---------------------------------

---

**STEP 4**

**Check in line fuse (if not installed proceed to Step 5).**

Is the line fuse intact?

<b>YES</b> Proceed to Step 5.	<b>NO</b> Replace fuse and check indicator lights. If no indicator lights still, proceed to Step 3.
----------------------------------	---

---

**STEP 5**

**Check voltage at nose plug/battery.**

Do you have between 11 and 14.0 volts DC?

<b>YES</b> Repair bad power connection between nose plug/battery and TB1.	<b>NO</b> Repair vehicle power connection.
--	---





# Section 3 Troubleshooting Procedure 3

**Symptom:** Overfill lights on  
**Possible Cause:** Defective Sensor  
Defective Module  
Wet Sensor

---

**STEP 1**

**Determine the type of sensor being used in the system.**

Are the overfill sensors SP-TO (2 wire) or SP-FU (5 wire)?

**SP-TO**

Proceed to Step 2.

**SP-FU**

Proceed to Troubleshooting Procedure 8.

---

**STEP 2**

**Determine the status of the overfill lights.**

Are the lights on solid or are they flashing?

**SOLID**

Proceed to Step 3.

**FLASHING**

Proceed to Troubleshooting Procedure 4.

---

**STEP 3**

**Determine sensor status.**

Are the indicated sensors in product?

**YES**

Drain product level or raise sensor level and check overfill indicators.

**NO**

Proceed to Step 4.

---

**STEP 4**

**Disconnect TB3-1 or other indicated overfill sensor lead connection at TB3.**

Does the overfill indicator flash slower than the Dynacheck indicator light?

**YES**

Proceed to Step 5.

**NO**

Replace the module.

---

**STEP 5**

**Connect a known good SP-TO to TB3-1, or other indicated overfill sensor TB3 terminal, and TB3-GND.**

Does the overfill indicator go out?

**YES**

Proceed to Step 6.

**NO**

Replace the module.

---

**STEP 6**

**Remove the SP-TO from vehicle compartment #1, or other indicated overflow sensor compartment, and connect it to the appropriate TB3 terminal and TB3-GND, respectively.**

Does the overflow indicator go out?

**YES**

Check cable from IntelliCheck to the sensors. Repair any discrepancies. If no discrepancies are found, proceed to Step 7.

**NO**

Replace sensor and repeat Step 3.

---

**STEP 7**

**Install the SP-TO back into vehicle compartment #1, or other indicated overflow compartment that it was removed from. Connect a separate wire to the SP-TO black lead and a separate wire to the SP-TO white lead. Connect these wires directly to the appropriate TB3 terminal and TB3-GND.**

Does the overflow indicator go out?

**YES**

Replace wiring between the IntelliCheck and the sensors.

**NO**

Replace the module.

# Section 4      **Troubleshooting Procedure 4** **(2 Wire Operation)**

**Symptom:**                      **Overfill indicator lights are flashing**

**Possible Cause:**      Shorted Sensor Lead  
                                  Open Sensor Lead  
                                  Defective Sensor  
                                  Defective Module

---

**STEP 1**

**Determine the speed at which the overfill indicators are flashing.**

Are they flashing faster, slower or the same speed as the Dynacheck indicator light?

<b>FASTER</b>	<b>SLOWER</b>	<b>SAME</b>
Proceed to Step 2.	Proceed to Procedure 4A.	Proceed to Procedure 4B.

---

**STEP 2**

**Disconnect the sensor lead from TB3-1 or other indicated overfill sensor.**

Does the light flash slower than the Dynacheck indicator light?

<b>YES</b>	<b>NO</b>
Proceed to Step 3.	Replace the module.

---

**STEP 3**

**Reconnect the sensor lead to TB3. At the vehicle compartment #1 sensor, or other indicated overfill sensor, disconnect the black SP-TO lead.**

Does the overfill indicator flash slower than the Dynacheck indicator light?

<b>YES</b>	<b>NO</b>
Replace the sensor. Repeat Step 3 for each of the remaining indicated overfill sensors.	Replace the wiring from the IntelliCheck to the sensors.

# Section 5      **Troubleshooting Procedure 4A** **(2 Wire Operation)**

**Symptom:**                      **Overfill indicators flashing slower than Dynacheck indicator**  
**Possible Cause:**      Open Wiring Connections Between IntelliCheck and Sensors  
                                 Defective Sensors  
                                 Defective Module  
                                 Improperly Programmed Module

---

**STEP 1**

**Determine if overfill lights other than actual vehicle compartment are flashing.**

Are overfill indicators greater than the number of vehicle compartments flashing?

<b>YES</b> IntelliCheck has not been properly programmed for vehicle compartment number. Reprogram module and repeat Step 1.	<b>NO</b> Proceed to Step 2.
---	---------------------------------

**STEP 2**

**Short the sensor connection at TB3-1 or other indicated overfill sensor TB3 connection to ground (GND).**

Does the overfill indicator light flash faster than the Dynacheck indicator light?

<b>YES</b> Proceed to Step 3.	<b>NO</b> Replace the module.
----------------------------------	----------------------------------

**STEP 3**

**Remove the jumper from TB3 to ground. At the vehicle #1 compartment, or other indicated overfill sensor compartment, short the black SP-TO lead to chassis ground.**

Does the overfill indicator flash faster than the Dynacheck indicator light?

<b>YES</b> Replace the sensor. Repeat this for each of the remaining indicated overfill sensors.	<b>NO</b> Replace/repair the wiring from the IntelliCheck to the sensors. The wiring is, possibly, open.
---	---

# Section 6      **Troubleshooting Procedure 4B** **(2 Wire Operation)**

**Symptom:**                      **Overfill sensor flashing at the same speed as the Dynacheck indicator**

**Possible Cause:**    IntelliCheck Not Properly Programmed  
                                 Defective Sensor  
                                 Defective Module  
                                 Wiring Picking Up Noise

---

**STEP 1**

**Determine if all of the overfill indicator lights are flashing for all eight (8) or for all of the active compartments as opposed to only one or two.**

Are all of the active compartment or all eight (8) overfill indicators flashing?

**YES**

Go to Procedure 4C.

**NO**

Proceed to Step 2.

---

**STEP 2**

**Short TB3-1 or other indicated overfill sensor lead TB3 connection to ground (GND).**

Does the overfill indicator light flash faster than the Dynacheck indicator light?

**YES**

Proceed to Step 3.

**NO**

Replace the module.

---

**STEP 3**

**Disconnect TB3-1 or other indicated overfill sensor lead TB3 connection.**

Does the overfill indicator light flash slower than the Dynacheck indicator light?

**YES**

Proceed to Step 4.

**NO**

Replace the module.

---

**STEP 4**

**Reconnect the sensor lead connection at TB3. At the vehicle compartment #1, or other indicated overfill compartment, disconnect the black SP-TO sensor lead.**

Does the light flash slower than the Dynacheck indicator light?

**YES**

Replace the sensor. Repeat Steps 3 and 4 for each remaining indicated overfill sensor.

**NO**

Repair/replace wiring from the IntelliCheck to the sensors. Look for anything around the wiring or IntelliCheck unit that may create ground or power “noise” that may interfere with the SP-TO operation.

# Section 7      **Troubleshooting Procedure 4C** **(2 Wire Operation)**

**Symptom:**              **All overflow indicator lights are flashing at the same speed as Dynacheck indicator**

**Possible Cause:**    Defective Module  
                              Module Not Properly Programmed

---

**STEP 1**

**Determine if the module is properly programmed for SP-TO sensors and that it is programmed for the appropriate number of vehicle compartments by programming the unit.**

Does the unit accept the program?

**YES**

Proceed to Step 2.

**NO**

Replace the module.

---

**STEP 2**

**Determine the indicator light status.**

Are the overflow lights off?

**YES**

IntelliCheck is operating properly.

**NO**

Proceed to Procedure 4.

# Section 8 Troubleshooting Procedure 5

**Symptom:** Retain lights on  
**Possible Cause:** Defective Sensor  
 Defective Module  
 Wet Sensor

**STEP 1**

**Determine the status of the retain lights.**

Are the lights on solid or are they flashing?

**SOLID**

Proceed to Step 2.

**FLASHING**

Proceed to Troubleshooting Procedure 6.

**STEP 2**

**Determine sensor status**

Is there product in the indicated compartment?

**YES**

Drain product level and check overfill indicators.

**NO**

Proceed to Step 3.

**STEP 3**

**Disconnect TB4-1 or other indicated retain sensor lead connection at TB4.**

Does the retain indicator flash slower than the Dynacheck indicator light?

**YES**

Proceed to Step 4.

**NO**

Replace the module.

**STEP 4**

**Connect a known good SP-IR to TB4-1, or other indicated retain sensor TB4 terminal, and TB4-GND.**

Does the retain indicator go out?

**YES**

Proceed to Step 5.

**NO**

Replace the module.

**STEP 5**

**Connect a separate wire to an indicated SP-IR sensor black lead and a separate wire to the SP-IR sensor white lead. Connect these wires directly to the appropriate TB4 terminal and TB4-GND.**

Does the retain indicator go out?

**YES**

Replace wiring between the IntelliCheck and the sensors.

**NO**

Replace the probe.



# Section 9      Troubleshooting Procedure 6

**Symptom:**              **Retain indicator lights are flashing**

**Possible Cause:**    Shorted Sensor Lead  
                              Open Sensor Lead  
                              Defective Sensor  
                              Defective Module

---

**STEP 1**

**Determine the speed at which the retain indicators are flashing.**

Are they flashing faster, slower or the same speed as the Dynacheck indicator light?

<b>FASTER</b>	<b>SLOWER</b>	<b>SAME</b>
Proceed to Step 2.	Proceed to Procedure 6A.	Proceed to Procedure 6B.

---

**STEP 2**

**Disconnect the sensor lead form TB4-1 or other indicated retain sensor.**

Does the light flash slower than the Dynacheck indicator light?

<b>YES</b>	<b>NO</b>
Proceed to Step 3.	Replace the module.

---

**STEP 3**

**Reconnect the sensor lead to TB4. At the vehicle compartment #1 retain sensor, or other indicated retain sensor, disconnect the black SP-IR lead .**

Does the retain indicator flash slower than the Dynacheck indicator light?

<b>YES</b>	<b>NO</b>
Replace the sensor. Repeat Step 3 for each of the remaining indicated retain sensors.	Replace the wiring from the IntelliCheck to the sensors.

# Section 10 Troubleshooting Procedure 6A

**Symptom:** Retain indicators flashing slower than Dynacheck indicator  
**Possible Cause:** Open wiring connections between IntelliCheck and sensors  
Defective sensors  
Defective module

---

**STEP 1**

**Short the retain sensor connection at TB4-1, or other indicated retain sensor, to ground (GND).**

Does the retain indicator light flash faster than the Dynacheck indicator light?

**YES**

Proceed to Step 2.

**NO**

Replace the module.

---

**STEP 2**

**Remove the jumper from TB4 to ground. At the vehicle #1 compartment or other indicated retain sensor compartment, short the black SP-IR lead to chassis ground.**

Does the retain indicator flash faster than the Dynacheck indicator light?

**YES**

Replace the sensor. Repeat this for each of the remaining indicated retain sensors.

**NO**

Replace/repair the wiring from the IntelliCheck to the sensors. The wiring is, possibly, open.

# Section 11 Troubleshooting Procedure 6B

**Symptom:** Retain sensor flashing at the same speed as the Dynacheck indicator

**Possible Cause:** Defective sensor  
Defective module  
Wiring picking up noise

---

**STEP 1**

**Short TB4-1 or other indicated retain sensor lead TB4 connection to ground (GND).**

Does the retain indicator light flash faster than the Dynacheck indicator light?

<b>YES</b> Proceed to Step 2.	<b>NO</b> Replace the module.
----------------------------------	----------------------------------

---

**STEP 2**

**Disconnect TB4-1 or other indicated retain sensor lead TB4 connection.**

Does the retain indicator light flash slower than the Dynacheck indicator light?

<b>YES</b> Proceed to Step 3.	<b>NO</b> Replace the module.
----------------------------------	----------------------------------

---

**STEP 3**

**Reconnect the sensor lead connection at TB4. At the vehicle compartment #1 or other indicated retain compartment, disconnect the black SP-IR sensor lead.**

Does the light flash slower than the Dynacheck indicator light?

<b>YES</b> Replace the sensor. Repeat Steps 3 and 4 for each remaining indicated retain sensor.	<b>NO</b> Repair/replace wiring from the IntelliCheck to the sensors. Look for anything connected to the wiring or IntelliCheck unit that may create ground or power “noise” that may interfere with the SP-IR operation (in spotlights, actuators).
--	---

# Section 12 Troubleshooting Procedure 7

**Symptom:** AUX light on  
**Possible Cause:** Defective module  
 Defective interlock switch

**STEP 1**

**Determine if the AUX light should be on.**

Is there a jumper across the AUX1 and AUX2 terminals of TB2?

<b>YES</b>	<b>NO</b>
Proceed to step 2.	Proceed to Step 3.

**STEP 2**

**Check continuity across TB2-AUX1 and TB2-AUX2 to determine if jumper wire is ok.**

Do you have continuity?

<b>YES</b>	<b>NO</b>
Replace the module.	Replace the jumper.

**STEP 3**

**Determine if the IntelliCheck is connected to a vapor or brake interlock switch**

<b>YES</b>	<b>NO</b>
Proceed to Step 4.	Install a jumper across TB2-AUX1 and TB2-AUX2. Recheck indicator light.

**STEP 4**

**Trace the wires to determine if they are going to a brake interlock switch or vapor interlock switch. Activate the appropriate switch by setting the brakes or connecting a coupling to the vapor recovery outlet.**

Does the AUX indicator light go out?

<b>YES</b>	<b>NO</b>
IntelliCheck is operating properly. Recheck all indicator lights.	Proceed to Step 5.

**STEP 5**

**Make sure the air on the vehicle is up. The interlock switches are typically air/electric and require air pressure to operate.**

Does the vehicle have sufficient air pressure?

<b>YES</b>	<b>NO</b>
Proceed to Step 6.	Charge air system. Proceed to Step 4.

---

**STEP 6**

**Wire a jumper across the interlock switch's normally open and common contacts.**

Does the AUX indicator light go out?

**YES**

Replace the interlock switch.

**NO**

Proceed to Step 7.

---

**STEP 7**

**Wire a jumper across TB2-AUX1 and TB2-AUX2.**

Does the AUX indicator light go out?

**YES**

Wiring between TB2 and the interlock switch is open. Repair/replace as necessary. Recheck indicator lights.

**NO**

Replace the module.

# Section 13 Troubleshooting Procedure 8 (5 Wire Operation)

**Symptom:** Overfill lights on (SP-FU sensors)

**Possible Cause:** Defective sensor  
Defective module  
Wet sensor

---

**STEP 1**

**Determine the status of the overfill lights.**

Are the lights on solid or are they flashing?

**SOLID**

Proceed to Step 2.

**FLASHING**

Proceed to Troubleshooting Procedure 9.

---

**STEP 2**

**Determine sensor status.**

Are the indicated sensors in product?

**YES**

Drain product level or raise sensor level and check overfill indicators.

**NO**

Proceed to Step 3.

---

**STEP 3**

**Disconnect TB3-1 or other indicated overfill sensor lead connection at TB3.**

Does the overfill indicator flash slower than the Dynacheck indicator light?

**YES**

Proceed to Step 4.

**NO**

Replace the module.

---

**STEP 4**

**Connect a known good SP-FU to TB3-1 (or other indicated overfill sensor TB3 terminal), TB3-power, TB3-pulse out and TB3-GND.**

Does the overfill indicator go out?

**YES**

Proceed to Step 5.

**NO**

Replace the module.

---

**STEP 5**

**Remove the SP-FU from vehicle compartment #1, or other indicated overflow sensor compartment, and connect it to the appropriate TB3 sensor terminal, TB3-power, TB3-pulse out and TB3-gnd.**

Does the overflow indicator go out?

**YES**

Check cable from IntelliCheck to the sensors. Repair any discrepancies. If no discrepancies are found, proceed to Step 6.

**NO**

Replace sensor and repeat Step 3.

---

**STEP 6**

**Install the SP-FU back into vehicle compartment #1, or other indicated overflow compartment that it was removed from. Connect a separate wire to the SP-FU orange lead, a wire to the SP-FU red lead, a wire to the SP-FU yellow lead and a separate wire to the SP-FU black lead. Connect these wires directly to the appropriate TB3 terminals.**

Does the overflow indicator go out?.

**YES**

Replace wiring between the IntelliCheck and the sensors.

**NO**

Replace the module.

# Section 14 Troubleshooting Procedure 9 (5 Wire Operation)

**Symptom:** Overfill indicator lights are flashing (SP-FU probes)

**Possible Cause:** Shorted sensor lead  
Open sensor lead  
Defective sensor  
Defective module

---

## STEP 1

**Determine the speed at which the overfill indicators are flashing**

Are they flashing faster, slower or the same speed as the Dynacheck indicator light?

**FASTER**

Proceed to Step 2.

**SLOWER**

Proceed to procedure 9A.

**SAME**

Proceed to procedure 9C.

---

## STEP 2

**Disconnect the sensor lead from TB3-1 or other indicated overfill sensor.**

Does the light flash slower than the Dynacheck indicator light?

**YES**

Proceed to Step 3.

**NO**

Replace the module.

---

## STEP 3

**Reconnect the sensor lead to TB3. At the vehicle compartment #1 sensor, or other indicated overfill sensor, disconnect the orange SP-FU lead.**

Does the overfill indicator flash slower than the Dynacheck indicator light?

**YES**

Replace the sensor. Repeat Step 3 for each of the remaining indicated overfill sensors.

**NO**

Replace the wiring from the IntelliCheck to the sensors.

# Section 15 Troubleshooting Procedure 9A (5 Wire Operation)

**Symptom:** Overfill indicators flashing slower than Dynacheck indicator

**Possible Cause:** Open wiring connections between IntelliCheck and sensors  
Shorted wiring connections between IntelliCheck and sensors  
Defective sensors  
Defective module  
Improperly programmed module

---

## STEP 1

**Determine if overfill lights other than actual vehicle compartment are flashing.**

Are overfill indicators greater than the number of vehicle compartments flashing?

**YES**

IntelliCheck has not been properly programmed for vehicle compartment number. Reprogram module and repeat Step 1.

**NO**

Proceed to Step 2.

---

## STEP 2

**Determine if all active compartment overfill sensor indicators are flashing slower than the Dynacheck indicator light.**

Are all indicator lights flashing slow?

**YES**

Proceed to troubleshooting procedure 9B.

**NO**

Proceed to Step 3.

---

## STEP 3

**Short the sensor connection at TB3-1 or other indicated overfill sensor TB3 connection to ground (GND).**

Does the overfill indicator light flash faster than the Dynacheck indicator light?

**YES**

Proceed to Step 4.

**NO**

Replace the module.

---

**STEP 4**

**Remove the jumper from the TB3 overfill sensor connection to ground. At the vehicle #1 compartment, or other indicated overfill sensor compartment, short the orange SP-FU lead to chassis ground.**

Does the overfill indicator flash faster than the Dynacheck indicator light?

**YES**

Replace the sensor. Repeat this for each of the remaining indicated overfill sensors.

**NO**

Replace/repair the wiring from the IntelliCheck to the sensors. The wiring is, possibly, open.

# Section 16 Troubleshooting Procedure 9B (5 Wire Operation)

**Symptom:** All overfill indicator lights are flashing slow

**Possible Causes:** Defective module  
Shorts in wiring  
Open in wiring

---

**STEP 1**

**Measure the voltage across TB3-power and TB3-GND.**

Is the voltage between 8 and 10 volts DC?

**YES**

Proceed to Step 4.

**No**

Proceed to Step 2.

---

**STEP 2**

**Disconnect the wire from TB3-power. Measure the voltage across TB3-power and TB3-GND.**

Is the voltage between 8 and 10 volts DC?

**YES**

Red sensor leads are shorted to chassis ground or black sensor wires. Trace short and repair/replace wiring as necessary.

**NO**

Proceed to Step 3.

---

**STEP 3**

**Verify that the unit is set to accept SP-FU sensors by reprogramming the unit. Measure the voltage across TB3-power and TB3-GND.**

Is the voltage between 8 - 10 volts DC?

**YES**

Reconnect the wires to TB3-power and TB3-GND. Proceed to Step 1.

**NO**

Replace the module.

---

**STEP 4**

**At each SP-FU sensor, measure the DC volts across the red and black sensor lead connections.**

is the voltage between 8 -10 volts DC?

**YES**

Proceed to Step 5.

**NO**

Red and/or black wires are open. Repair/replace wiring as necessary. Recheck indicator lights.

---

**STEP 5**

**Connect an SP-FU sensor directly to TB3.**

Does the appropriate indicator light go out?

**YES**

Proceed to Step 6.

**NO**

Replace the module.

---

**STEP 6**

**Disconnect the SP-FU from TB3. Connect a wire to TB3-pulse out and connect it on top of the vehicle to one of the yellow sensor leads.**

Do the indicator lights go out?

**YES**

There is an open/short in the wiring between TB3-pulse out and the yellow sensor lead connections. Repair/replace wiring as necessary. Recheck indicator lights.

**NO**

Replace the module.

# Section 17 Troubleshooting Procedure 9C (5 Wire Operation)

**Symptom:** Overfill sensor flashing at the same speed as the Dynacheck indicator

**Possible Cause:** IntelliCheck not properly programmed  
Defective sensor  
Defective module  
Wiring picking up noise

---

## STEP 1

**Determine if all of the overfill indicator lights are flashing for all eight (8) or for all of the active compartments as opposed to only one or two.**

Are all of the active compartment or all eight (8) overfill indicators flashing?

**YES**

Go to Procedure 9D.

**NO**

Proceed to Step 2.

---

## STEP 2

**Short TB3-1 or other indicated overfill sensor lead TB3 connection to ground (GND).**

Does the overfill indicator light flash faster than the Dynacheck indicator light?

**YES**

Proceed to Step 3.

**NO**

Replace the module.

---

## STEP 3

**Disconnect TB3-1 or other indicated overfill sensor lead TB3 connection.**

Does the overfill indicator light flash slower than the Dynacheck indicator light?

**YES**

Proceed to Step 4.

**NO**

Replace the module.

---

## STEP 4

**Reconnect the sensor lead connection at TB3. At the vehicle compartment #1, or other indicated overfill compartment, disconnect the orange SP-FU sensor lead.**

Does the light flash slower than the Dynacheck indicator light?

**YES**

Replace the sensor. Repeat Steps 3 and 4 for each remaining indicated

**NO**

Repair/replace wiring from the IntelliCheck to the sensors. Look for overfill sensor anything around the wiring or IntelliCheck unit that may create ground or power "noise" that may interfere with the SP-FU operation.

# Section 18 Troubleshooting Procedure 9D (5 Wire Operation)

**Symptom:** All overfill indicator lights are flashing at the same speed as the Dynacheck indicator

**Possible Causes:** Defective module  
Module not properly programmed

---

**STEP 1**

**Determine if the module is properly programmed for SP-FU sensors and that it is programmed for the appropriate number of vehicle compartments by programming the unit.**

Does the unit accept the program?

**YES**

Proceed to Step 2.

**NO**

Replace the module.

---

**STEP 2**

**Determine the indicator light status.**

Are the overfill lights off?

**YES**

IntelliCheck is operating properly.

**NO**

Proceed to Procedure 8.

# Section 19 Troubleshooting Procedure 10

**Symptom:** All indicator lights show IntelliCheck as operational, but vehicle can not load

**Possible Cause:** Bad ground connection  
Bad power connection  
Bad wiring connection from TB5 to socket

---

**STEP 1**

Verify ground continuity from the nose plug/battery to the IntelliCheck TB1 connection. Using an ohmmeter, check from TB1(-) to the vehicle chassis. take another reading from the ground pin at the nose plug/battery to the vehicle chassis.

Are the readings within 2 ohms of each other?

**YES**

Proceed to Step 2.

**NO**

Repair all ground connections between the vehicle nose plug and the IntelliCheck TB1. Repeat Step 1.

---

**STEP 2**

Verify power continuity between the nose plug/battery and TB1. Measure the voltage across TB1 and across the ground and hot at the nose plug/battery. the voltage readings should be between 11 and 14.0 volts DC.

Is the voltage difference between the two readings less than .25 volts DC?

**YES**

Proceed to Step 3.

**NO**

Repair all power connections between the vehicle nose plug/battery and TB1. Repeat Step 2.

---

**STEP 3**

Validate the optic to and optic from indicator lights go out when the rack connection is made or when a Scully Universal Truck Tester is attached to the vehicle socket.

Do the red indicator lights for the rack connection go out?

**YES**

Proceed to Step 5.

**NO**

Proceed to Step 4.

---

**STEP 4**

**With an ohmmeter check the continuity between the IntelliCheck TB5 and the vehicle socket for proper wiring connection. Also verify that no shorts exist between the TB5 connections.**

Is TB5 to socket wiring to Scully specification?

**YES**

Replace the module.

**NO**

Repair/replace TB5 to socket wiring as necessary. Proceed to Step 5.

---

**STEP 5**

**Verify the IntelliCheck output operation using either the loading rack control monitor or a Scully Universal Truck Tester. Connect the rack control or tester to the vehicle socket. Verify that you have a green permit light on the rack control or appropriate good indications on the universal truck tester.**

Does the IntelliCheck output activate the rack control or tester?

**YES**

IntelliCheck is operating properly.

**NO**

Replace the module.





**Worldwide Headquarters  
Scully Signal Company**

70 Industrial Way, Wilmington, MA 01887

Tel: (617) 692-8600 • 1-800-272-8559

Fax: (617) 692-8620

e-mail: [sales@scully.com](mailto:sales@scully.com)

[www.scully.com](http://www.scully.com)

Specifications subject to change without notice.  
© Printed in USA Part No. 61460 RevB 7/03