The Info Center 2 displays: PWR HI VOLT
What this code means: The TRS supply voltage is greater than 17 volts.

Things to check:
Check voltage regulator on tractor, look for loose connections, short circuits, mis-wiring in the wiring harnesses. Check battery voltage on tractor.

Group 2. Sensor / Sensor Extension Fault Code List

The fault code identifies which speed sensor/wheel end needs to be checked by the S number, letter prefix in the DTC.

The prefixes relate to the sensed wheel ends as follows:
Trailer roadside front sensed wheel is identified as S1A on the diagnostic tool.
Trailer curbside front sensed wheel is identified as S1B on the diagnostic tool.
Trailer roadside rear sensed wheel is identified as S2A on the diagnostic tool.
Trailer curbside rear sensed wheel is identified as S2B on the diagnostic tool.

The Info Center 2 displays any of the following:
S1A CONT
S1B CONT
S2A CONT
S2B CONT

What this code means: The TRS has detected an open or short circuit in the speed sensor circuit.

Things to check:
Remove electric power from the TRS ECU.
1. Verify speed sensor and extension cable are securely fastened together. Verify sensor extension is plugged into the correct socket on the TRS ECU. If in doubt refer to the TRS Installation/Service manual for speed sensor placement.

2. Disconnect the sensor extension cable from sensor and measure electrical resistance between the two sockets in the sensor connector shell, the resistance should be between 980-2350 ohms. For values outside of this range replace the sensor. 3. Disconnect sensor extension from ECU and measure continuity for the two conductors. For short circuits and open circuits between the conductors replace the sensor extension. 4. If all is well switch the suspect sensor with a known good sensor at the TRS ECU. If the fault is in the TRS ECU the DTC code should not follow the suspect sensor. Repower the TRS and verify the DTC is no longer active.

The Info Center 2 displays any of the following:
S1A SIGNAL
S1B SIGNAL
S2A SIGNAL
S2B SIGNAL

What this code means: Intermittent low sensor output, this DTC occurs when the trailer is moving.

Things to check:
Check for broken sensor retaining clip, damaged or misaligned exciter ring, excessive wheel bearing end play, loose/ damaged/ corroded sensor connections or a partial break in the conductors inside the speed sensor cabling. Move the trailer over 5 mph to verify the DTC has cleared.

The Info Center 2 displays any of the following:
S1A OUTPUT
S1B OUTPUT
S2A OUTPUT
S2B OUTPUT

What this code means: Low sensor output, this DTC occurs when the trailer is moving.
Fault Codes

Things to check:
Securely chock the trailer wheels and jack the trailer axles one at a time, release the spring brakes on the jacked axle. 1. Rotate the wheel by hand at 1 rev / 2 sec and measure AC voltage at the sensor plug, it should be > 200 millivolts. 2. Make sure sensors are pushed up against exciter rings. 3. Examine the speed sensor connectors for corrosion, loose contacts, worn or chafed cables. Replace as needed. Move the trailer over 5 mph to verify the DTC has cleared.

Group 3. Modulators Fault Code List

The Info Center 2 displays any of the following:
BRK APPLY SC
BRK APPLY OC
BRK APPLY SC DRIVE
BRK APPLY UNSPEC

What this code means: An internal fault with the brake apply solenoid.

Things to check:
Detach ECU and replace modulator pack.

The Info Center 2 displays any of the following:
EPRV 21 HOLD SC
EPRV 21 DUMP SC
EPRV 21 HOLD OC
EPRV 21 DUMP OC
EPRV 21 HOLD SC DRIVE
EPRV 21 DUMP SC DRIVE
EPRV 21 HOLD UNSPEC
EPRV 21 DUMP UNSPEC

What this code means: An internal fault with the hold or dump solenoids of modulator 21.

Things to check:
Detach ECU and replace the modulator pack.

The Info Center 2 displays any of the following:
EPRV 22 HOLD SC
EPRV 22 DUMP SC
EPRV 22 HOLD OC
EPRV 22 DUMP OC
EPRV 22 HOLD SC DRIVE
EPRV 22 DUMP SC DRIVE
EPRV 22 HOLD UNSPEC
EPRV 22 DUMP UNSPEC

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What this code means: An internal fault with the hold or dump solenoids of modulator 22.

Things to check:
ECU and replace modulator pack.

The Info Center 2 displays any of the following:
DEMAND SC
DEMAND OC

What this code means: An internal fault with the service/control line pressure transducer.

Things to check:
Detach ECU and replace modulator pack.

The Info Center 2 displays any of the following:
EPRV 21 DEL SC
EPRV 21 DEL OC
EPRV 22 DEL SC
EPRV 22 DEL OC

What this code means: An internal fault with the delivery pressure transducer.

Things to check:
Detach ECU and replace modulator pack.

The Info Center 2 displays any of the following:
EPRV 21 SLOW REC
EPRV 22 SLOW REC
Fault Codes

**What this code means:** Wheels are slow to recover after brakes are released during an ABS event.

**Things to check:**
Make sure foundation brakes are adjusted and operating properly, delivery hoses are not pinched off or otherwise restricted, speed sensors not crossed with modulator, correct side-by-side plumbing. Refer to the TRS Installation/Service manual L30040 for correct speed sensor and modulator valve installation information.

The Info Center 2 displays any of the following:
RESR SC
RESR OC
**What this code means:** An internal fault with the reservoir pressure transducer.

**Things to check:**
Detach ECU and replace modulator pack.

The Info Center 2 displays any of the following:
SUSP SC
SUSP OC
SUSP OUT OF RANGE

**What this code means:** An air suspension transducer fault has been detected.

**Things to check:**
1. Check for air leaks on suspension lines
2. Make sure leveling valve is plumbed correctly with the TRS modulator pack
3. Otherwise the fault is an internal fault with the suspension pressure transducer. In which case detach ECU and replace modulator pack.

**Group 4. ECU Fault Code List**

The Info Center 2 displays any of the following:
REV SWITCH SC
REV SWITCH OC
REV SWITCH PNEUMATIC
REV SWITCH SIGNAL
What this code means: Relay Emergency valve switch input. This switch is not used in North America.

Things to check:
Verify the TRS ECU socket marked “PSW” is empty, Refer to the TRS Installation Service manual L30040.

2. If the PSW socket is empty: an internal fault with relay emergency valve pressure switch. Detach TRS ECU and replace.

The Info Center 2 displays: PNEUMATIC DEMAND LOSS
What this code means: No corresponding pneumatic demand pressure.

Things to check: Detach ECU and replace.

The Info Center 2 displays any of the following:
TOWED CAN DEMAND LOSS
TOWED CAN CONTROL LOSS

What this code means: A detected CAN electronic data bus communication fault.

Things to check: Detach ECU and replace

The Info Center 2 displays any of the following:
ECU EE ERR
ECU PARAM ERR
ECU EE UNSPEC

What this code means: Internal ECU fault.

Things to check:
Detach ECU and replace.

Group 5. Lateral Accelerometer Fault Code List
Fault Codes

The Info Center 2 displays any of the following:
LAT ACC OC
LAT ACC SC
LAT ACC SIGNAL

What this code means: Lateral accelerometer sensor has a detected fault.

Things to check:
If an external lateral accelerometer is installed:
Ensure proper positioning of external lateral accelerometer on trailer. Verify the external lateral accelerometer is connected into the correct TRS ECU socket. Check for damage to the lateral accelerometer cable, replace external lateral accelerometer. Otherwise, detach ECU and replace.

If the internal lateral accelerometer is used: detach ECU and replace.

Group 6. Auxiliaries Fault Code List

The Info Center 2 displays: AUX1

What this code means: A fault has been detected with Auxiliary Channel 1.

Things to check:
Verify TRS auxiliary software configuration for channel 1 is correct. Check auxiliary channel wiring for open or short circuits. Inspect auxiliary connections for corrosion, loose connections, and misaligned connector in TRS ECU socket. Detach auxiliary device and test if possible. If available, refer to the auxiliary devices installation manual. Refer to the TRS Installation Service manual, L30040, for locations of auxiliary channel sockets.

The Info Center 2 displays: AUX2

What this code means: A fault has been detected with Auxiliary Channel 2

Things to check:
Verify TRS auxiliary software configuration for channel 2 is correct. Check auxiliary channel wiring, for open or short circuits. This channel is wired into the Power A cable, on the cab mounted ABS fault lamp circuit, refer to the TRS Installation Service manual L30040. Inspect auxiliary connections for correction, loose connections, and misaligned connector in socket. Detach auxiliary device and test if possible. If available, refer to Auxiliary Devices Installation Manual.
The Info Center 2 displays: AUX3

What this code means: A fault has been detected with Auxiliary Channel 3.

Things to check:
Verify TRS auxiliary software configuration for channel 3 is correct. Check auxiliary channel wiring for open or short circuits. This channel is wired into the Power A cable on the trailer mounted ABS fault lamp circuit, refer to the TRS Installation Service manual L30040. Inspect auxiliary connections for corrosion, loose connections, and misaligned connector in socket. Detach auxiliary device and test if possible. If available, refer to the auxiliary devices installation manual. Refer to the TRS Installation Service Manual, L30040, for location of Auxiliary Channel Sockets.

The Info Center 2 displays: AUX4

What this code means: A fault has been detected with Auxiliary Channel 4.

Things to check:
Verify TRS auxiliary software configuration for channel 4 is correct. Check auxiliary channel wiring for open or short circuits. Inspect auxiliary connections for corrosion, loose connections, and misaligned connector in TRS ECU socket. Detach auxiliary device and test if possible. If available, refer to the auxiliary devices installation manual. Refer to the TRS Installation Service manual, L30040, for locations of auxiliary channel sockets.

The Info Center 2 displays: AUX5

What this code means: A fault has been detected with Auxiliary Channel 5.

Things to check:
Verify TRS auxiliary software configuration for channel 5 is correct. Check auxiliary channel wiring for open or short circuits. Inspect auxiliary connections for corrosion, loose connections, and misaligned connector in TRS ECU socket. Detach auxiliary device and test if possible. If available, refer to the auxiliary devices installation manual. Refer to the TRS Installation Service manual, L30040, for locations of auxiliary channel sockets.
Distance Menu

Distance Menu Selection

The distance menu selection allows the user to read and clear two separate trip distances or display the remaining time or distance until the next service interval. Finally, the odometer mileage stored in the TRS is displayed. The mileage may be displayed as miles or as kilometers by configuring the Info Center 2. Figure 10 displays the Distance menu and its functions.

**Figure 10: Distance Menu Selection and Functions.**

- **Odometer**: Displays the mileage stored in the TRS.
- **Trip 1**: Display the mileage recorded by TRS since Trip 1 was last reset. It may be reset by pressing the OK (Clear) button and follow the screen prompts.
- **Trip 2**: Display the mileage recorded by TRS since Trip 2 was last reset. It may be reset by pressing the OK (Clear) button and follow the screen prompts.
- **Service**: Display the distance in miles until the next service.
- **Service**: Display the number of days until the next service.
Test Menu

The test menu allows the user to check the operation of the various speed sensors and pressure transducers used by the TRS to function. Figure 11 displays and explains the Test menu functions.

Aux Dev Test Menu Selection

TRS auxiliary devices which may be switched On or Off may be tested within the AUX Dev Test function. Figure 11 specifies the functionality of this menu selection.

<table>
<thead>
<tr>
<th>Load</th>
<th>Displays the current trailer load. Display Units: lbs, %, Bar Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt Angle</td>
<td>Displays the roll over sensor reading</td>
</tr>
<tr>
<td>Air Pressure</td>
<td>Displays the TRS air pressure, in PSI</td>
</tr>
</tbody>
</table>

Figure 11: Test Menu and Functions.
Test Menu

Displays the current trailer wheel speeds

**Aux Dev Test**

This menu will switch ON or OFF the TRS auxiliary functions

Valid Commands:

ON-Auxiliary is ON
OFF-Auxiliary is OFF
ECU-Return the Auxiliary Device to TRS control

The auxiliary test function will revert to TRS control when exiting from this menu.

More than one auxiliary may be ON at the same time.

**Brake Test**

This menu switches ON or OFF the TRS load sensing function for use on a brake dynamometer.

Load Sensing is returned to TRS control when the function is exited.

Figure 11: Test Menu and Functions - Continued.
Settings Menu

The settings menu is used by the Info Center 2 user to change or configure the TRS and Info Center 2 functions. Figure 12 illustrates this menu’s functions.

Changes the TRS service indicator. Both days and distance (miles) may be altered.

The entered value will be added to the current odometer reading and only becomes active after the Service Reset has been performed.

Reset the TRS service indicator

See Figure 13. Selects the Operating Language of the Info Center 2.

Figure 12: Settings Menu and Functions.
Setting Menu

Start Screen

This menu allows users to choose Info Center 2 functions to be displayed at startup, before the main menu.

There are eight (8) options available:

- Note - If selected, there will be no start screen option
- Distance
- DTC - Diagnostic Trouble Codes
- Aux - Auxiliary
- Test Load
- Language
- Unlock
- User Defined

The User Defined Start Screen can display up to five (5) of the following items:

- Odometer
- Service
- Service Interval
- DTC - Diagnostic Trouble Codes
- DTC Memory
- Lining Wear - ** Not Available
- Reservoir
- Test Load

Use the UP arrow and DOWN arrow buttons to scroll, and the OK button to select.

Figure 12: Settings Menu and Functions - Continued.
**Setting Menu**

****** PIN**
Use this menu to edit/change the Info Center 2 PIN. “Yes” saves new PIN, “No” exits with no save.

**Unlock Info Center 2**
Unlocks the Info Center 2 with a valid PIN.

**Wheel Scale**
Displays the TRS tire scale and sensor tooth count settings. Odometer: This field allows the user to fine tune the odometer scaling (Odoscale), in REVs per Mile (RPM).

**Date Format**
Select the day, month, and year format.

**Date**
Sets the date: Use the UP arrow, DOWN arrow, and OK button to set the date.

**Time**
Sets the 24 hr clock: Use the UP arrow, DOWN arrow, and OK button to set the date. Time is set at factory to Coordinated Universal Time (UTC).

**Units**
Select metric or imperial units for the Info Center 2. Use the UP arrow, DOWN arrow, and then OK button to confirm and exit.

**Contrast**
Use this menu to adjust the LCD screen contrast.

**Display**
A self test function for the Info Center 2 display.

Figure 12: Settings Menu and Functions - Continued.
Setting Menu

Language Menu Selection

To set the language the Info Center 2 uses to communicate with the user: enter the Language menu selection and use the up/down arrow buttons to move to the desired language, press the OK button to select. Figure 13 lists the choices of languages, identified by country, supported by the Info Center 2.

Enter the language menu and use the UP and DOWN arrow buttons to navigate to the required language. Select the language using the OK button.

<table>
<thead>
<tr>
<th>Language</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bosanski</td>
<td>Bosnia</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>Bulgaria</td>
</tr>
<tr>
<td>Cesky</td>
<td>Czech Republic</td>
</tr>
<tr>
<td>Deutsch</td>
<td>Germany</td>
</tr>
<tr>
<td>English</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>English USA</td>
<td>North American</td>
</tr>
<tr>
<td>Greek</td>
<td>Greece</td>
</tr>
<tr>
<td>Espanol</td>
<td>Spain</td>
</tr>
<tr>
<td>Espanol USA</td>
<td>Spanish - American</td>
</tr>
<tr>
<td>Francals</td>
<td>France</td>
</tr>
<tr>
<td>Francais Canadien</td>
<td>French Canadian</td>
</tr>
<tr>
<td>Italiano</td>
<td>Italy</td>
</tr>
<tr>
<td>Magyar</td>
<td>Hungary</td>
</tr>
<tr>
<td>Nederlands</td>
<td>Holland</td>
</tr>
<tr>
<td>Polski</td>
<td>Poland</td>
</tr>
<tr>
<td>Pycknn</td>
<td>Russia</td>
</tr>
<tr>
<td>Limba romana</td>
<td>Romania</td>
</tr>
<tr>
<td>Srpski</td>
<td>Serbia</td>
</tr>
<tr>
<td>Slovenscina</td>
<td>Slovenia</td>
</tr>
<tr>
<td>Svenskia</td>
<td>Sweden</td>
</tr>
<tr>
<td>Turkce</td>
<td>Turkey</td>
</tr>
</tbody>
</table>

Figure 13: Language Menu and Functions.

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Wheel Scale Menu Selection:

The TRS system requires a wheel scale setting to ensure accuracy of the odometer. This value may be adjusted through the Wheel Scale menu selection. The default value is 508 millimeter rolling radius or 502 revs/mile. This value may change depending on the tire size. Consult tire manufacturer for rolling or loaded radius and tire scale factor on the next page.
## Tire Scale Menu

<table>
<thead>
<tr>
<th>Trailer Tire</th>
<th>Scaling Factor 100T (miles)</th>
<th>Scaling Factor 100T (km)</th>
<th>Scaling Factor 80T (miles)</th>
<th>Scaling Factor 80T (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>80T Smallest Tire</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>215/75R17.5</td>
<td>579</td>
<td>543</td>
<td>538</td>
<td>338</td>
</tr>
<tr>
<td>8R17.5</td>
<td>527</td>
<td>495</td>
<td>490</td>
<td>308</td>
</tr>
<tr>
<td>275/65R17.5HC</td>
<td>523</td>
<td>495</td>
<td>493</td>
<td>308</td>
</tr>
<tr>
<td>8.5R17.5</td>
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<td>490</td>
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<td>308</td>
</tr>
<tr>
<td>245/70R17.5</td>
<td>495</td>
<td>467</td>
<td>470</td>
<td>293</td>
</tr>
<tr>
<td>235/75R17.5</td>
<td>495</td>
<td>467</td>
<td>470</td>
<td>293</td>
</tr>
<tr>
<td>225/70R19.5</td>
<td>483</td>
<td>459</td>
<td>463</td>
<td>271</td>
</tr>
<tr>
<td>8.25R15</td>
<td>470</td>
<td>443</td>
<td>446</td>
<td>271</td>
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<tr>
<td>9R17.5HC</td>
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<td>446</td>
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<td>10R17.5</td>
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<td>271</td>
</tr>
<tr>
<td>265/70R19.5</td>
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<td>436</td>
<td>439</td>
<td>251</td>
</tr>
<tr>
<td>285/70R19.5</td>
<td>454</td>
<td>431</td>
<td>434</td>
<td>251</td>
</tr>
<tr>
<td><strong>100T Smallest Tire</strong></td>
<td>580</td>
<td>360</td>
<td>459</td>
<td>286</td>
</tr>
<tr>
<td>305/70R19.5</td>
<td>574</td>
<td>357</td>
<td>454</td>
<td>283</td>
</tr>
<tr>
<td>11R17.5HC</td>
<td>566</td>
<td>352</td>
<td>453</td>
<td>282</td>
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<tr>
<td>10.00R15TR</td>
<td>566</td>
<td>352</td>
<td>453</td>
<td>282</td>
</tr>
<tr>
<td>255/70R22.5</td>
<td>555</td>
<td>340</td>
<td>443</td>
<td>264</td>
</tr>
<tr>
<td>275/70R22.5</td>
<td>554</td>
<td>340</td>
<td>443</td>
<td>264</td>
</tr>
<tr>
<td>10R22.5</td>
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<td>333</td>
<td>436</td>
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<tr>
<td>9.00R20</td>
<td>519</td>
<td>323</td>
<td>415</td>
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<tr>
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<td>518</td>
<td>322</td>
<td>414</td>
<td>258</td>
</tr>
<tr>
<td>285/75R24.5</td>
<td>504</td>
<td>313</td>
<td>403</td>
<td>251</td>
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<td>295/80R22.5</td>
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<td>402</td>
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<td>10.00R20</td>
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<td>248</td>
</tr>
<tr>
<td>315/80R22.5</td>
<td>491</td>
<td>305</td>
<td>383</td>
<td>244</td>
</tr>
<tr>
<td><strong>80T Largest Tire</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>11.00R20</td>
<td>488</td>
<td>303</td>
<td>391</td>
<td>243</td>
</tr>
<tr>
<td>305/75R24.5</td>
<td>488</td>
<td>303</td>
<td>391</td>
<td>243</td>
</tr>
<tr>
<td>11R24.5</td>
<td>478</td>
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<td>243</td>
</tr>
<tr>
<td>10.00R22</td>
<td>478</td>
<td>297</td>
<td>391</td>
<td>243</td>
</tr>
<tr>
<td>12.00R20</td>
<td>472</td>
<td>294</td>
<td>391</td>
<td>243</td>
</tr>
<tr>
<td>425/65R22.5</td>
<td>471</td>
<td>293</td>
<td>391</td>
<td>243</td>
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<tr>
<td>11.00R22</td>
<td>466</td>
<td>290</td>
<td>391</td>
<td>243</td>
</tr>
<tr>
<td><strong>100T Largest Tire</strong></td>
<td>391</td>
<td>243</td>
<td>391</td>
<td>243</td>
</tr>
</tbody>
</table>

*Factory Tire Scale Set At 502 Rev/Mile.

**USEFUL NUMBERS:**
- 1 mile = 1.6093 km
- 1km = 0.6214 miles

**SCALE FACTOR (SF) FOR OTHER TIRE SIZE:**

**Option 1**

\[
SF = \frac{1000}{Rc} \times \frac{T}{100}
\]

**Option 2:**

\[
SF = N \times \frac{T}{1000}
\]

**Rc** = Rolling Circumference in meters

**T** = Exciter actual tooth count

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Battery

The Info Center 2 contains a replaceable battery, though not user serviceable. The main two functions of the battery are: to provide power to the Info Center 2 when it is not connected to the TRS and to provide power for the service lamp function when the Info Center 2 is not connected to the TRS. At present the service lamp function is not enabled.

The battery voltage is checked each time the Info Center 2 is switched On and will display a battery low warning screen if the battery is “running low”. The low voltage screen will have to be acknowledged by pressing the OK button before proceeding to the main menu options. Figure 14 and Figure 7 display the battery low warning screen.

Note that none of the Info Center TRS data will be lost if the battery is low because this data is stored in non-volatile memory which does not depend upon the battery voltage to retain the stored information.

The battery is not a user serviceable item and Info Center 2 must be returned to Haldex for replacement. Please call the Haldex technical help line for information. Refer to the phone support contact information on the inside front cover page.

Figure 14: Battery Low Warning
Trouble Shooting the Info Center 2

Info Center 2 display is blank:
Press one of the three buttons and release
Verify the trailer is powered with permanent power and that the TRS has powered up
If the Info Center 2 screen is in direct sunlight, shade the display

Info Center 2 display is erratic or unintelligible
Run the Display function under the Tests menu to verify the LCD screen is OK

Center 2 does not communicate with the TRS
Verify the data cable is correctly seated in the TRS DIAG socket and in the Info Center 2. Examine the cable for corrosion on the electrical contacts, short circuits between the conductors and open circuits on the conductors. Ensure that there is sufficient electrical power to the TRS. If a battery is used make sure it is fully charged. Do not use a battery charger to power the TRS or a 12 volt AC supply.

Care and Maintenance of the Info Center 2

The buttons should not be pushed with sharp pointed objects
Do not use harsh chemicals, cleaning solvents or strong detergents to clean the Info Center 2.

Do not paint the Info Center 2.

Do not pressure-wash the Info Center 2.

Do not remove the outer cover of the unit, replace the cover if broken or cracked.

If the diagnostic/power cable needs to be removed from the Info Center 2 refer to Figure 4 for details on removal and reinstallation of this cable.