



Your Construction
Technology Provider

Field Reference Guides

GCS900 Scraper

Version 13.13

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SITECH TECHNOLOGY DEALER TRAINING CHECKLIST

System: GCS900 Scraper

Version: 13.1

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<input type="checkbox"/>	Scraper Training Display Settings	4
<input type="checkbox"/>	Check Blade Wear	6
<input type="checkbox"/>	Load Design	7
<input type="checkbox"/>	Verify System Accuracy	8
<input type="checkbox"/>	Vertical Offset	9
<input type="checkbox"/>	Horizontal Offset	10
<input type="checkbox"/>	Vertical Guidance	12
<input type="checkbox"/>	Cut and Fill Site Map	13
<input type="checkbox"/>	Lane Guidance	14
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<input type="checkbox"/>	Connect to Wi-Fi	16
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<input type="checkbox"/>	Configure Remote Assistant	18
<input type="checkbox"/>	Wireless Data Sync	19
<input type="checkbox"/>	Start Remote Assistant	20
<input type="checkbox"/>	Connect to IBSS Base	21

CUSTOMER COPY

Training Acknowledgement:

Customer Signature

Date

SITECH Representative

Date

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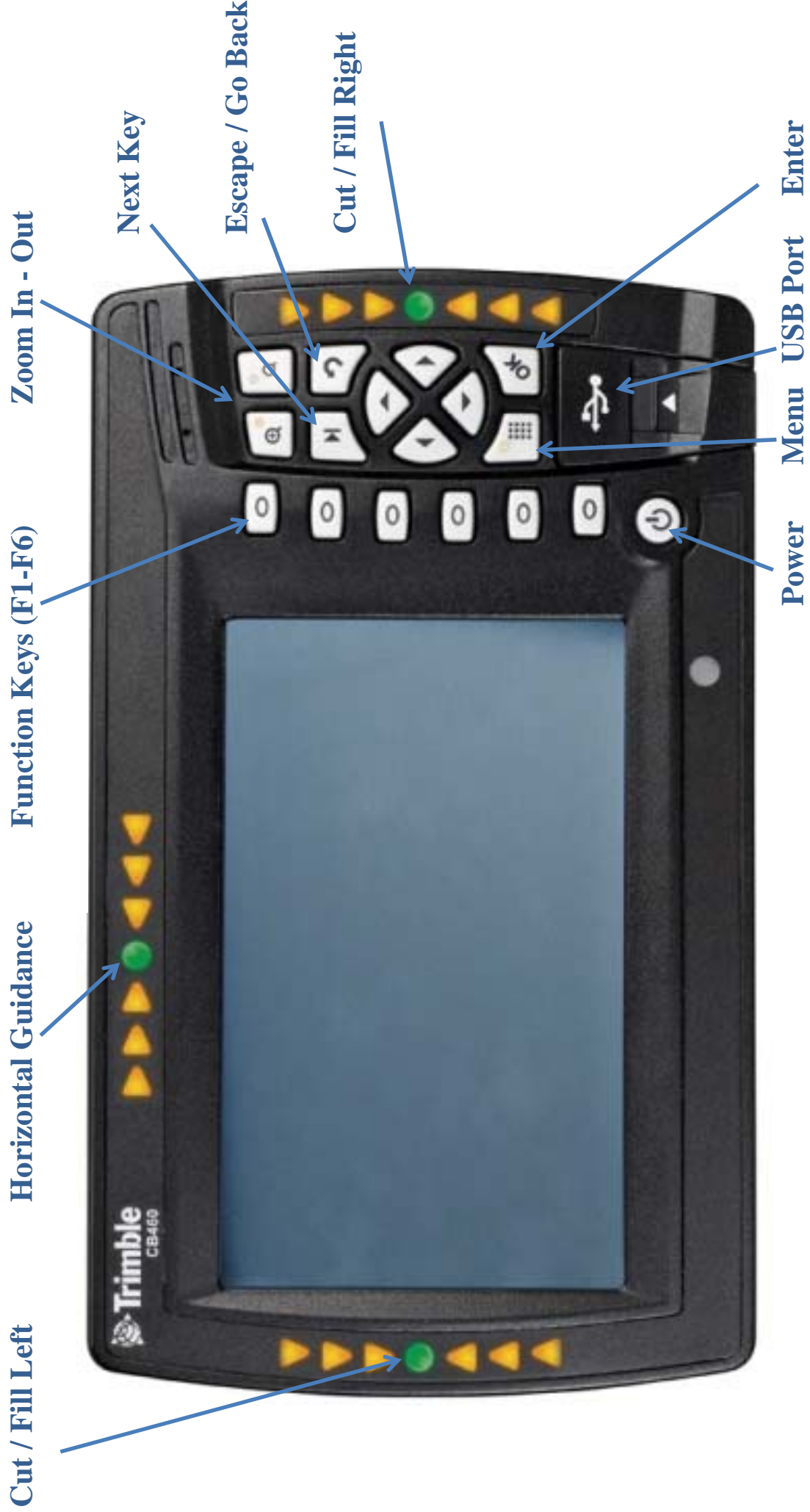
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GCS900 Scraper Training Display Settings

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The **Control Box** must be in **Manager's Mode**

1. Press "Menu" 
2. Select "GNSS Accuracy" and Press "OK"
3. Press and **Hold "F6 "** and Press "F2" **Medium Mode**
4. Change "GPS Horizontal error limit:" to "0.30ft or 0.090m" and Press "Next" 
5. Change "GPS Vertical error limit:" to "0.30ft or 0.090m" and Press "OK" Twice
6. Select "Guidance Method" and Press "OK"
7. Use Arrow to change **Adjust cut to avoid overcut:** to "NO" and Press "OK"
8. Select "Increment Switch Adjustment" and Press "OK"
9. Change **Vertical offset increment:** "0.00" and Press "OK"
10. Select "Text Items" and Press "OK"
11. Press "F1"  and Uncheck each Item checked
12. Press "F1"  to select "Cut/Fill Left", "Offline (3D)" and "Cut/Fill Right" (select in order)
13. Press "F3" **Cross-Section**
14. Press "F1"  and Uncheck each Item checked
15. Press "F1"  to select "Cut/Fill Left", "Offline (3D)" and "Cut/Fill Right" (select in order)
16. Press "F4" **Profile View**
17. Press "F1"  and Uncheck each Item checked
18. Press "F1"  to select "Cut/Fill Left", "Offline (3D)" and "Cut/Fill Right" (select in order)
19. Press "F5" **Text View 1**
20. Press "F1"  and Uncheck each Item checked

21. Press “F1”  to select “Design Elev.(3D)”, “Design XSlope (3D)”, “Mainfall (3D)”, “Satellites (3D)” and ”V. GNSS Err (3D)” (select in order)
22. Press “F6” Text View 2
23. Press “F1”  and Uncheck each Item checked
24. Press “F1”  to select “Northing (3D)”, “Easting (3D)”, “Elevation (3D)”, “Mainfall” and “Offline (3D)” (select in order)
25. Press “OK”
26. Select “Save Settings” and Press “OK”
27. Select “Display Settings” and Press “OK”
28. Enter Operator’s Name such as “Joe G” and Press “OK”
29. Press “ESC”  twice to return to operating screen

GCS900 Check Blade Wear

Version: 13.1

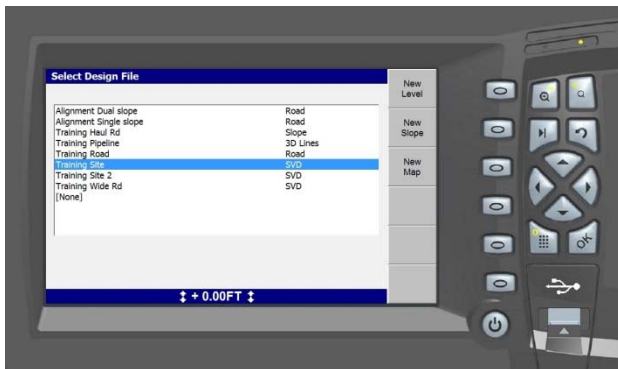
1. Press “Menu” 
2. Select “Blade Wear” and Press “OK”
3. Measure from **Center of Cutting Edge Bolts** to **Bottom of Blade**
4. Do not use **Bolt at Blade Tip**
5. Enter **Distance** and Press “OK”
6. Press “ESC”  to return to operating screen




GCS900 Load Design

Version: 13.1

1. Press “Menu” 
2. Select “Select Design” and Press “OK”
3. Use Arrows  to highlight **Design** and Press “OK”




4. Press “ESC”  to return to the operating screen

GCS900 Verify System Accuracy


Version: 13.1

Verify the system accuracy at the start of each work day using a Permanent Bench Point





1. Move machine to **Bench Point** with the **Blade low to the ground**
2. Position **Blade Tip** over **Bench Point**
3. Press “Next”  until **Text Screen 2** is displayed
4. Verify correct **Blade Tip** is selected Press “F1” to change **Blade Tip**



5. Verify **Northing**, **Easting** and **Elevation** are correct (**add distance above Bench Point**)
6. See Supervisor if **Northing** and **Easting** do not match
7. See Supervisor if **Elevation** does not match and Press “Next” 

GCS900 Vertical Offset

Version: 13.1

1. Press “**F4**”  to enter **Horizontal and Vertical Offset**
2. Press “**F6**” until **Vertical Offset** is displayed at the top left of screen
3. Enter Vertical Offset and Press “**F2**”  to select above or below **Design**




4. Press “**OK**” to return to operating screen
5. **Vertical Offset** is displayed at the bottom of the screen



GCS900 Horizontal Offset


Version: 13.1

1. Press “F4”  to enter **Horizontal and Vertical Offset**
2. Press “F6” until **Horizontal Offset** is displayed at the top left of screen



3. Press “F1” **Alignment:**

4. Use Arrows  to Select **[Plan Line]** if list is displayed and Press “OK”

5. Use Arrows  to Select **Line Offset** and Press “F1” **Select**




6. Press “OK” and enter **Offset distance**





7. Press “F2” Select Offset to be **Left** or **Right** of the line (**-3.00 is Left**)
8. Press “OK” to return to operating screen

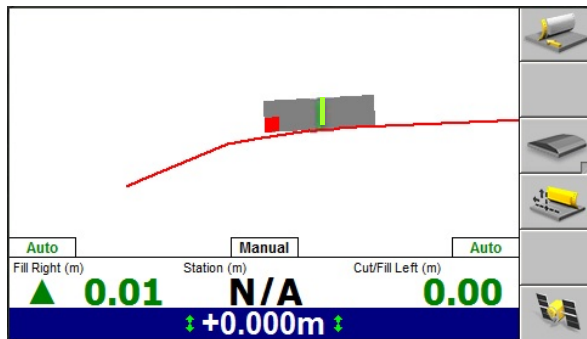


9. **Horizontal Offset** is highlighted in red
10. Press “F1”  to change **Blade Left** or **Right**

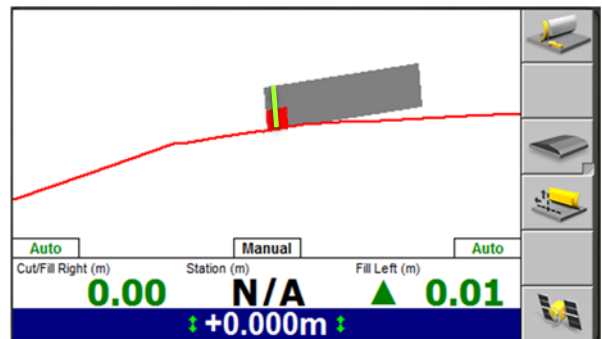
GCS900 Vertical Guidance

Version: 13.1

1. Press “Menu” 
2. Press “Guidance Method” and Press “OK”
3. Change **Adjust cut to avoid overcut:** to “NO”
4. Press “F1” for **Change Method**
5. Select **Method** from list and Press “OK”
6. Press “OK” to accept change
7. Press “ESC”  to return to operating screen







One Point Center is the default setting used for long or wide surfaces. It also allows for shaping crowns by holding the slope past the crown- point.



One Point Focus is used for narrow surfaces such as shoulders or slopes.

GCS900 Cut and Fill Site Map

Version: 13.1

1. Press “Menu”  and select “Mapping/Recording Settings” Press “OK”
2. Change “Mapping for the main screen views” to “Yes” scroll down list
3. Change “Blade tip mapping” to “Automatics on” and Press “OK”
4. Select “Main Screen views” and Press “OK”
5. Under **Active views** select **Cut/Fill “Yes”**
6. Under Main Screen Softkeys select Softkey 5 “Mapping On/Off/Auto” and Press “OK”
7. Press “Esc”  to Main Screen
8. Press “F5” until  Mapping only in Automatic is displayed
9. Press “Next”  until Plan View with Cut/Fill Scale is displayed



GCS900 Lane Guidance

Version: 13.1

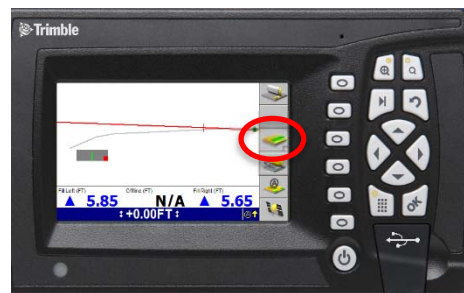
1. Move **Blade Tip with Focus** over Lane to be Extended



2. Press “F3” for **Lane Guidance**




3. “F3” turns **Lane Guidance** Off and ON






GCS900 Dozer Sensor Calibration

Version: 13.1

1. Press “Menu” 
2. Select “Calibrate Sensors” and Press “OK”
3. Select “Blade slope sensor (turn around) and Press “OK”
4. Following instructions
5. Press “F6” Finish
6. Press “ESC” twice to return to operating screen





Connect to WiFi GCS900

Version: 13.1

1. Press “**Menu**” 
2. Press “**F2**” Installation
3. Select “**Connectivity Settings**” then press “**OK**”
4. Select “**Wi-Fi Network**” then press “**OK**”
5. Press “**F1**” New
6. Select the Wi-Fi you wish to connect to press “**OK**”
7. Enter “**Pass Phrase**”
8. Press “**F6**” 
9. Press “**F6**” Finish
10. Select the Wi-Fi to connect to Press “**OK**”
11. Press  2 times to return to main menu



TCC Settings GCS900

Version: 13.1

1. Press “**Menu**” 
2. Press “**F2**” Installation
3. Select “**Connectivity Settings**” then press “**OK**”
4. Select “**Connected Community Settings**” then press “**OK**”
5. Enter “**Device Password**” then press “**Next**” 
6. Enter “**Organization**” then press “**Next**” 
7. “**Filespace and Work Group Folder**” should be left to default
8. Press “**OK**”
9. Press  2 times to return to them main screen



Configure Remote Assistant GCS900

Version: 13.1

1. Press “**Menu**” 
2. Press “**F2**” **Installation**
3. Select “**Connectivity Settings**” then press “**OK**”
4. Select “**Remote Assistant Configuration**” then press “**OK**”
5. Enter “**Support Number**”
6. Press “**F1**” Force Upgrade
7. Press “**OK**”
8. Press  2 times to return to main screen




Wireless Data Sync GCS900

Version: 13.1

1. Press “**Menu**” 
2. Press “**F2**” Installation
3. Select “**Connectivity Settings**” then press “**OK**”
4. Select “**Wireless Data Sync**” then press “**OK**”
5. Press “**F1**” Start
6. When synchronization is complete Press “**ESC**”  3 times to operating screen

Start Remote Assistant GCS900



Version: 13.1

1. Press “**Menu**” 
2. Select “**Remote Assistant**” then press “**OK**”
3. Press “**F1**” Start
4. Once  icon appears at the bottom of the screen the machine is connected
5. Press “**ESC**” 2 times  to return to them main screen

Connect to IBSS Base Station GCS900

Version: 13.1

The Control Box must be in Manager's Mode

1. Press "Menu" 
2. Press "F2" Installation
3. Select "Connectivity Settings" then press "OK"
4. Select "GNSS Base Configuration" then press "OK"
5. Select "IBSS-Remote Base"
6. Press "F1" Create New
7. Device Password and Organization should be populated if not see (TCC Settings Sheet)
8. Press "F6"
9. Select the Base from list and Press "F6"
10. Review **IBSS Base Name** and Press "F6" **Finish**
11. Select "IBSS - Remote Base"
12. Use left or right arrow keys to select correct base name and Press "OK"
13. Press  2 times to return to operating screen



Service and Support

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