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# Field Reference Guides

## GCS900 HEX VERSION 13.13

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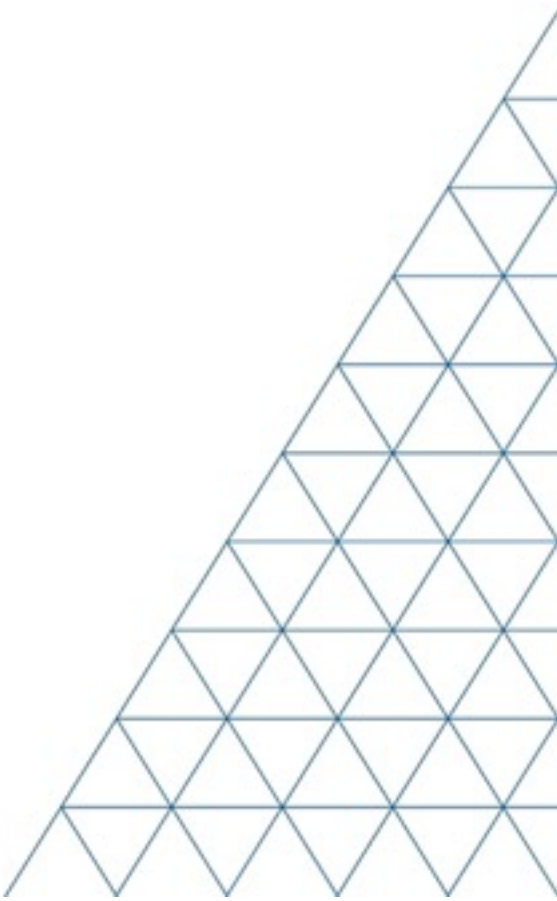

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# TRAINING CHECKLIST

**System: GCS900 HEX** **Version: 13.1**



## CUSTOMER COPY

**Training Acknowledgement:**

Customer Signature Date SITECH Representative Date

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# TRAINING CHECKLIST

**System: GCS900 HEX** **Version: 13.1**



## SITECH COPY

**Training Acknowledgement:**

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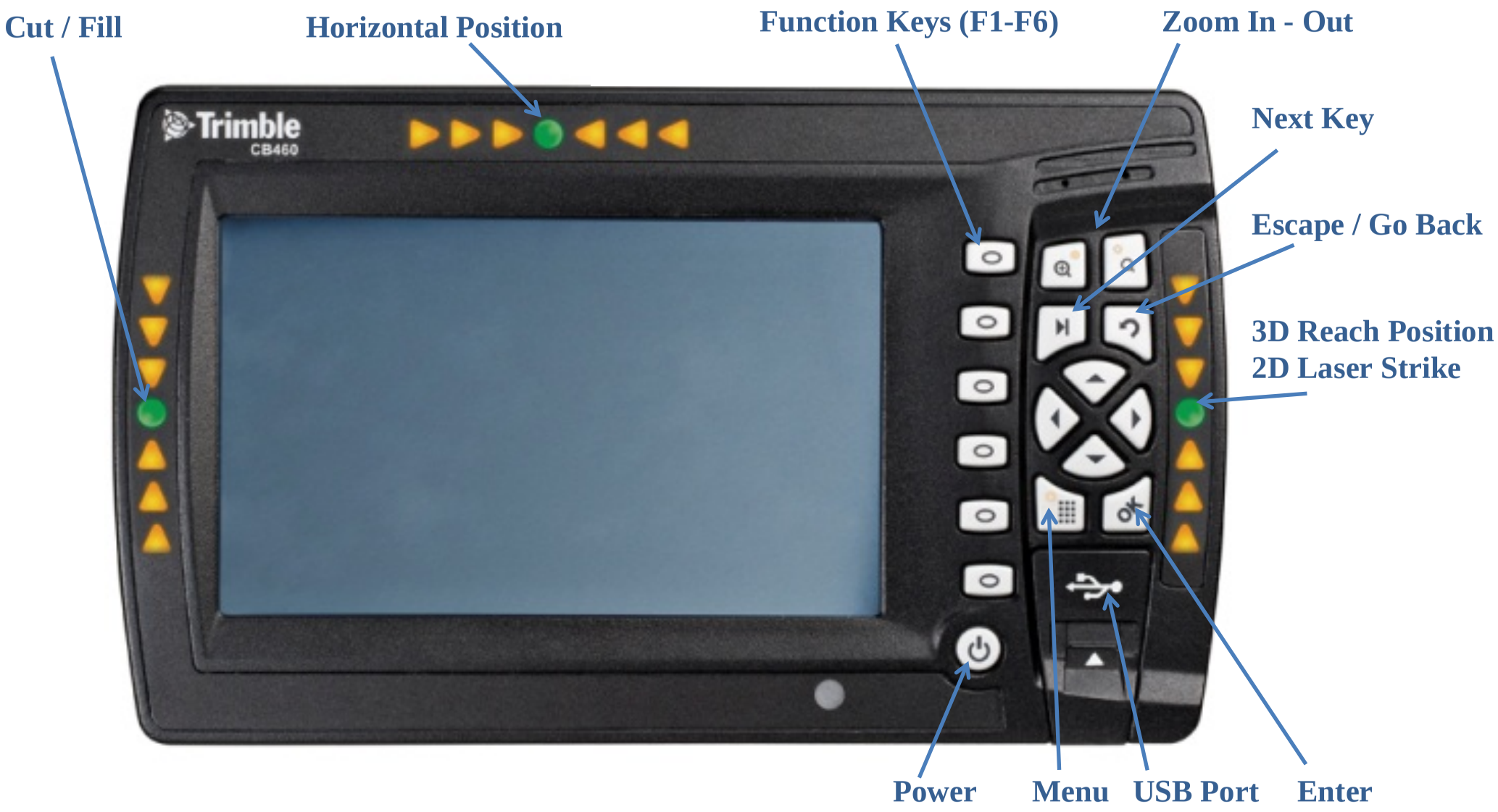
**Version:** 13.1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CB460

# GCS900 HEX Training Display Settings

**Version:** 13.1

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 **"Text Items"** and Press **"OK"**
9. Press **"F1"**  and **<u>Uncheck each Item checked</u>**
10. Press **"F1"**  to select **"Cut/Fill Center"** , **"Offline (3D)"** (select in order)
11. Press **"F3" Split View**
12. Press **"F1"**  and **<u>Uncheck each Item checked</u>**
13. Press **"F1"**  to select **"Cut/Fill Center"** , **"Offline (3D)"** (select in order)
14. Press **"F4" Text View 1**
15. Press **"F1"**  and **<u>Uncheck each Item checked</u>**
16. Press **"F1"**  to select **"Design Name"** , **"Design Elev.(3D)"**, **"Design XSlope (3D)"**, "**V. GNSS Err (3D)** and **GNSS Acc. Mode** (select in order)
17. Press **"F5" Text View 2**
18. Press **"F1"**  and **<u>Uncheck each Item checked</u>**
19. Press **"F1"**  to select **"Northing (3D)"**, **"Easting (3D)"**, **"Elevation (3D)"**, **"Bucket Slope"** and **"Offline (3D)"** (select in order)

20. Press **“OK”**

21. Select **Beeper** and Press **“OK”**

22. Press **“F1”**  and **<u>Uncheck each Item checked</u>**

23. Press **“F1”**  to select **On Grade** and **Below Grade**

24. Press **“OK”**

25. Select **“Save Settings”** and Press **“OK”**

26. Select **“Display Settings”** and Press **“OK”**

27. Enter **Operator’s Name** such as **“Joe G”** and Press **“OK”**

28. Press **“ESC”**  twice to return to operating screen

# GCS900 Check Bucket Wear

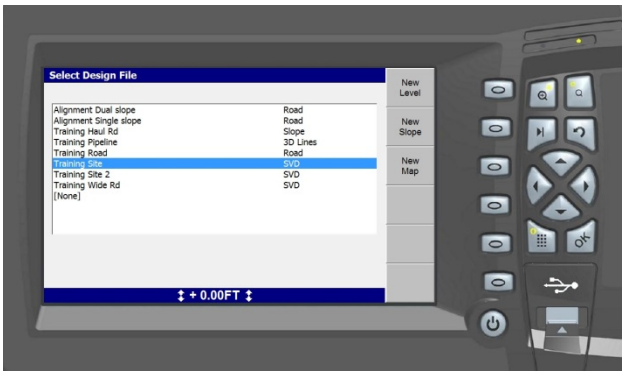
**Version:** 13.1

1. Press **“Menu”** 
2. Select **“Bucket Wear”** and Press **“OK”**
3. Measure **J to J1**
4. Enter **Distance** and Press **“OK”**
5. 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”**



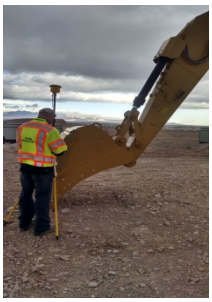

4. Press **“ESC”**  to return to the operating screen

# GCS900 Verify HEX System Accuracy

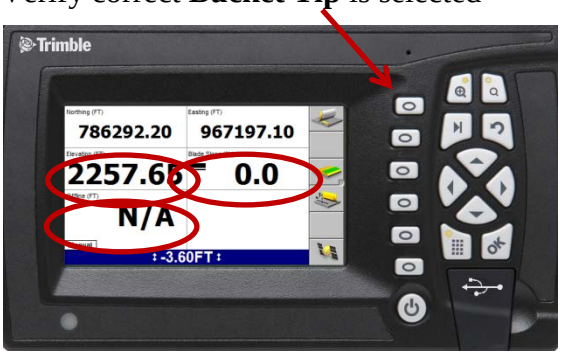
**Version:** 13.1

***Verify the system accuracy by checking into Bench Point***





1. Move machine to **Bench Point**
2. Position **Bucket Tip** over **Bench Point**
3. Press **"Next"**  until **Text Screen 2** is displayed
4. Verify correct **Bucket Tip** is selected




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** 

# GCS900 HEX Sensor Accuracy Test

**Version:** 13.1

1. Place Bucket in vertical position with teeth pointing down on a point on a solid surface
2. Record **Cut/Fill**


3. Uncurl Bucket and position Boom and Stick so **teeth touch the same point**
4. Verify **Cut/Fill**
5. Curl Bucket and positon bucket so **teeth touch the same point**
6. Verify **Cut/Fill**

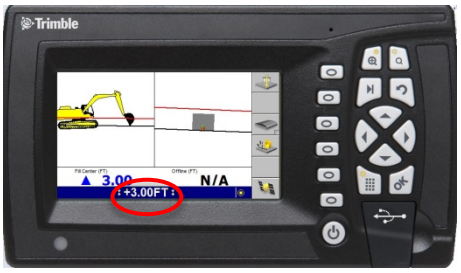
***(See Supervisor if Elevation is off by more than 0.2' or 70mm)***


# GCS900 HEX 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 HEX 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 position cross-hair over **Line** and Press **“F1” Select**

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

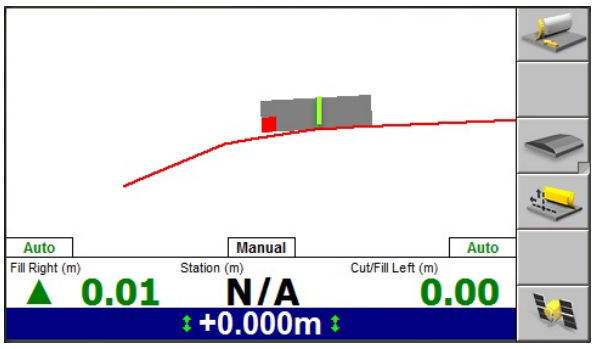

7. Press **“F2”** Select Offset to be **Left** or **Right** of the line **(-3.00 is Left)**
8. Press **“OK”** to return to operating screen


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

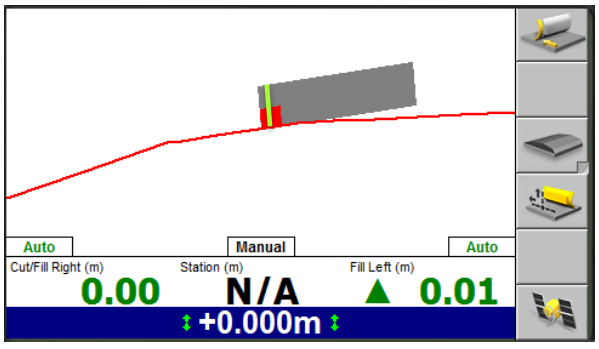
# GCS900 Vertical Guidance

**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 HEX 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 , **“Minimum height mapping “Yes”** and **“Bucket tip mapping”** to **“Arm retracting”**
4. Press **“OK”**
5. Select **“Main Screen views”** and Press **“OK”**
6. Under **Active views** select **“Terrain “No”**, “**Cut/Fill “Yes”** , “**Pass count “No”** and Press **“OK”**
7. Press **“Esc”** to Main Screen
8. Press **“F5”** until Mapping only in **Arm Retracting** is displayed
9. Press **“Next”** until **Plan View** with **Cut/Fill Scale** is displayed

# GCS900 HEX UTS Set-up

**Version:** 13.1

1. Press **"Menu"** 
2. Press **"F4"Mode** select "**3D UTS"** and Press **"ESC"** 
3. Press **"F6"**  to **Start UTS**
4. Verify **Auto search: Yes**
5. Press **"F4"** to **Start UTS**
6. Verify **UTS status: Tracking**
7. Press **"ESC"**  to return to operating screen
8. Press and Hold  to open **Bench UTS** screen


***Follow instructions to position Blade over Bench Point***

9. Enter **Elevation** of **Bench Point**
10. Press **"F5 Left** or **F6 Right"** to **Bench Blade**

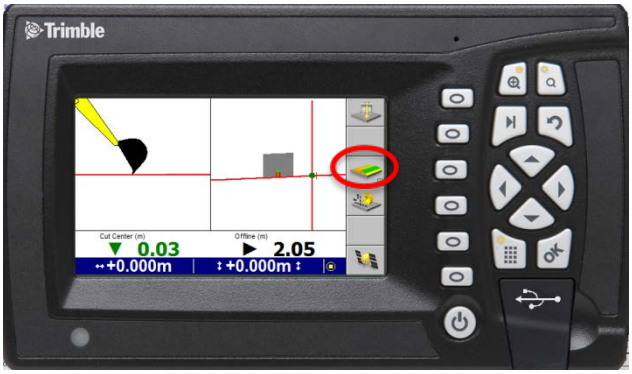
***Drive to end of work area and check Blade Elevation on a Bench Point to verify Setup***

# GCS900 Lane Guidance

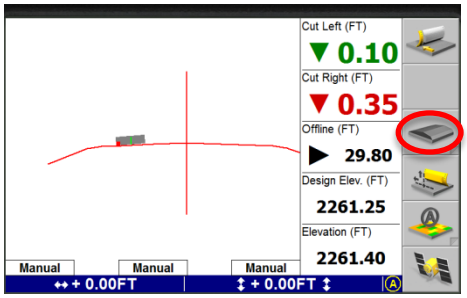
**Version:** 13.1

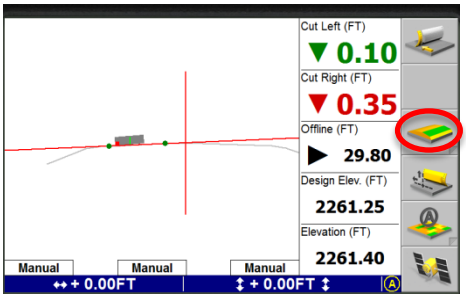
1. Move **Bucket Tip with Focus** over Lane to be Extended


2. Press **“F3”** for **Lane Guidance**


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



# GCS900 Create New Bucket

**Version:** 13.1

1. Press **"Menu"** 
2. Select **"Select Bucket"** and Press **"OK"**
3. Press **"F2" Create New**
4. Enter **Bucket name:** and Press **"F6"** 
5. Select **Yes** or **No Tilt Bucket** and Press **"F6"** 
6. Enter **Dimensions** and Press **"F6"** 
7. **Plumb Bucket** and Press **"F6"** 
8. Curl Bucket until Vertical and Press **"F6"** 
9. Measure **J to J1** and Press **"F6"** 
10. Press **"F6"**  **Finish**
11. Select **Bucket** and Press **"OK"**
12. Press **"ESC"**  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 the 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 them 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 "O**K**"
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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