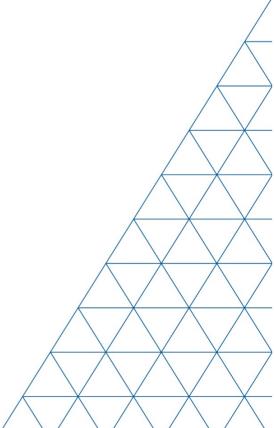


EARTHWORKS DOZER VERISON 2.10

SITECH SOUTHEAST TEXAS

SITECH-SETX.COM





# SITECH TECHNOLOGY DEALER Field Reference Guides

## System: Earthworks Dozer Version: 2.1

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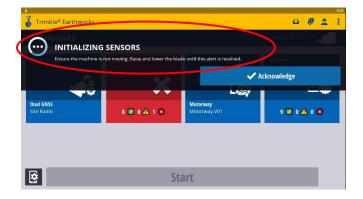




### **Starting Earthworks**



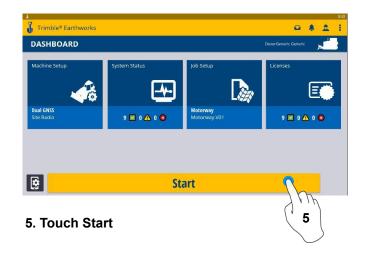




4. Raise and lower the blade to initialize sensors



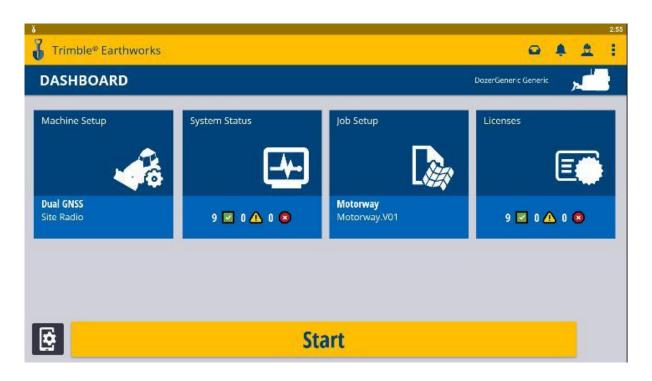
- 2. Select operator
- 3. Enter password if required and touch login







#### **Dashboard**



#### **Machine Setup**



- Position Source
- Correction Source

#### **System Status**



- Status of Devices
- Component Warnings

#### Job Setup



- Select or Create Project
- Select or Create Design
- Create Work Orders

#### Licenses



- EC520 License
- TD520 License
- GNSS Receiver License

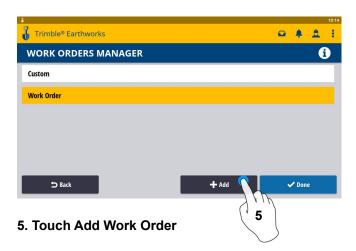


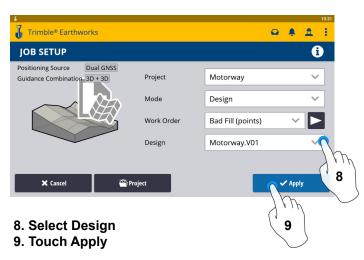


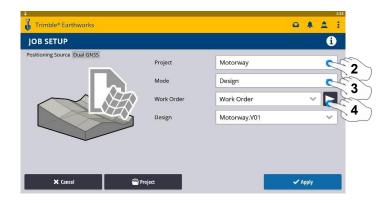
### Select Project, Design and Work Order



1. Touch Job Setup







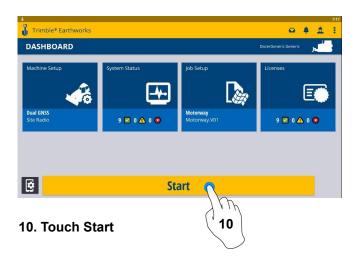
- Select Project
   Select Mode
- 4. Work Order (Create New)
- Trimble® Earthworks

  NEW WORK ORDER

  Work Order

  Bad Fill (points)

  6. Type in New Work Order Name
- 7. Touch Save



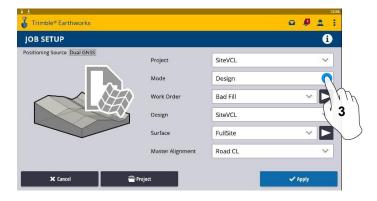




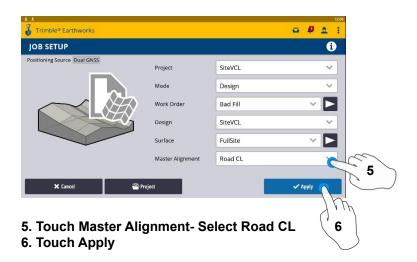
### Select Project, Design, and Work Order: VCL

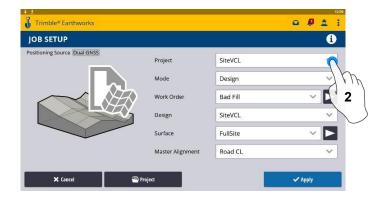


1. Touch Job Setup

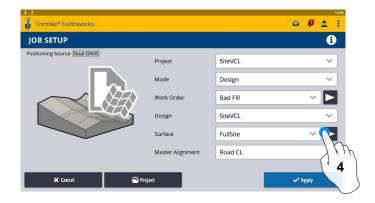


3. Touch Design-Select SiteVCL





2. Touch Project- Select Site VCL



4. Touch Surface- Select Surface

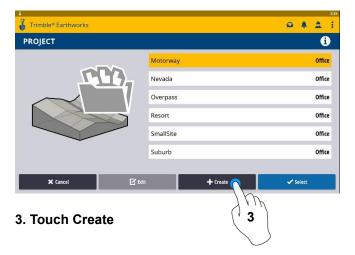




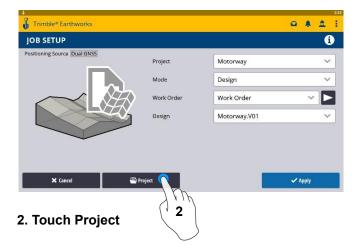
### **Create Project**



1. Touch Job Setup











- 7. Touch Apply
- 8. Touch Start

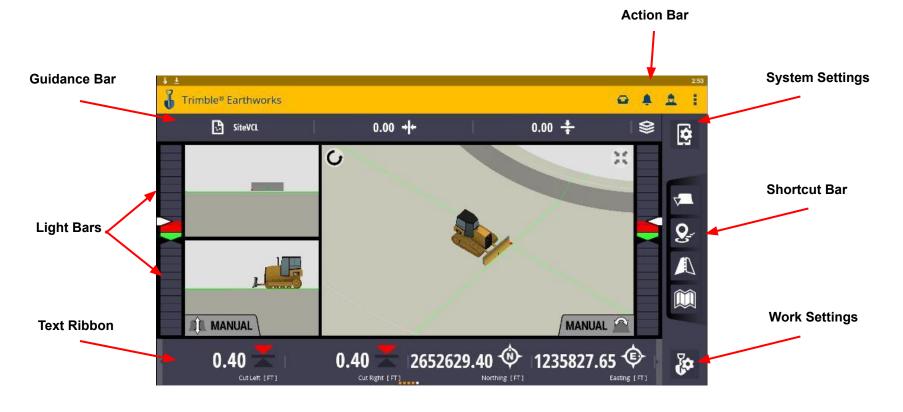






#### Earthworks Screen

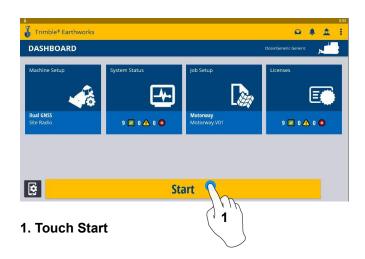
9

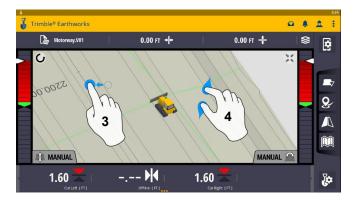






#### Work Screen Interface

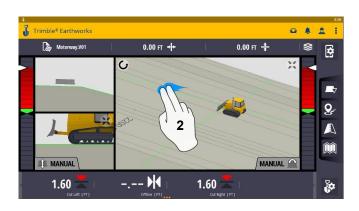




- 3. Drag to pan
- 4. Pinch-Spread to zoom



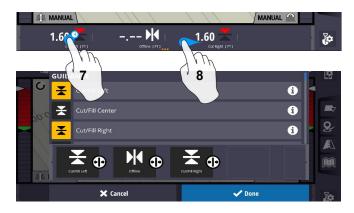
6. Touch to re-center



2. 2 Finger swipe to change views



5. Touch to select Pan or Rotate

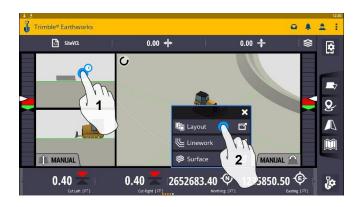


- 7. Touch and Hold for Setup
- 8. Swipe to change view

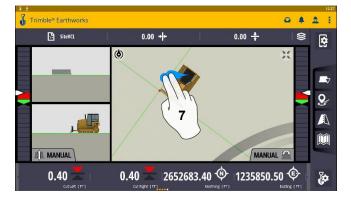




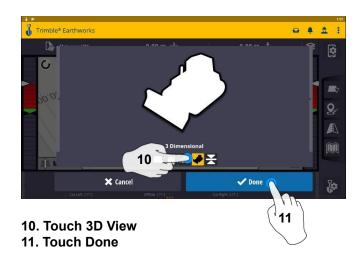
### Work Screen Setup

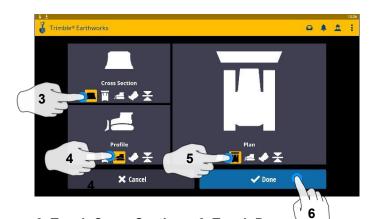


- 1. Touch and hold
- 2. Touch Layout



#### 7. 2 Finger Swipe to single view





- 3. Touch Cross Section 6. Touch Done4. Touch Profile View
- 5. Touch Plane View



- 8. Touch and Hold
- 9. Touch Layout

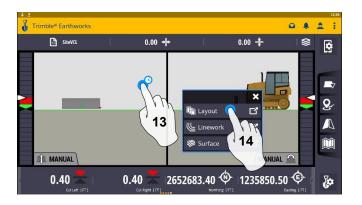


12. 2 Finger swipe to 2 Screen View

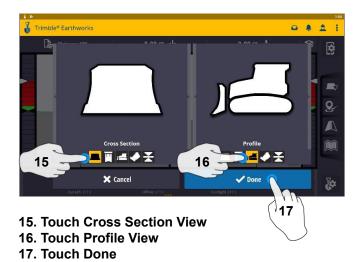




### Work Screen Setup Cont:



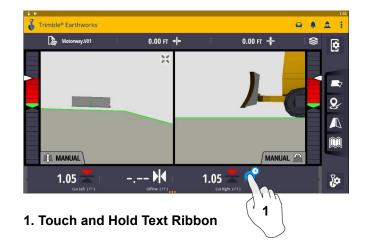
- 13. Touch and Hold
- 14. Touch Layout

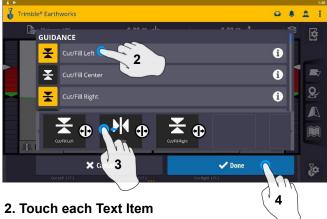






### Text Ribbon Setup



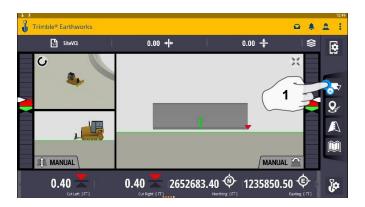


- Cut/Fill Left
- Offline
- Station
- Cut/Fill right
- Northing
- Easting
- Elevation
- Design Elevation
- Design Cross Slope
- Design Mainfall
- Vertical GNSS Precision
- Satellite Count
- 3. Touch-Hold-Drag to change position
- 4. Touch Done





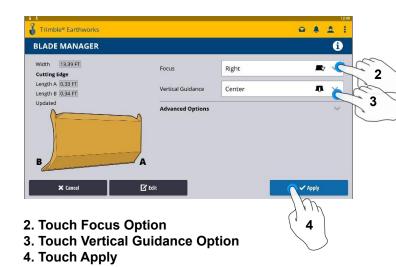
#### Blade Focus Point / Vertical Guidance

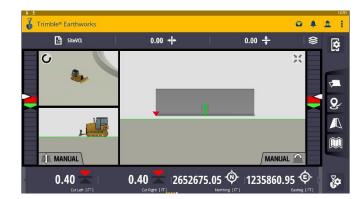


1. Touch and Hold Blade Icon



5. Touch Blade Icon to change focus point





NOTE: "LINK TO FOCUS" vertical guidance will follow focus point.

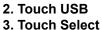


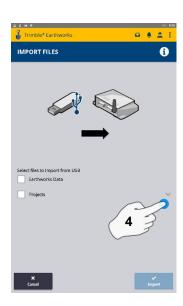


### Import Data With USB

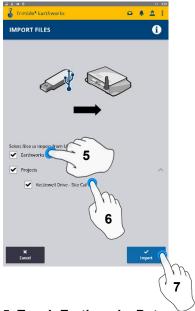








4. Touch "v"

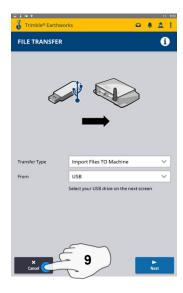


5. Touch Earthworks Data

- 6. Touch Project
- 7. Touch Import



8. Touch OK

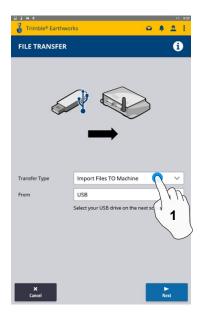


9. Touch Cancel Remove USB

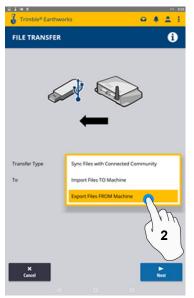




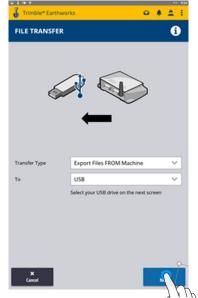
### **Export Data With USB**



**Insert USB** 1. Touch Transfer Type



2. Touch Export Files

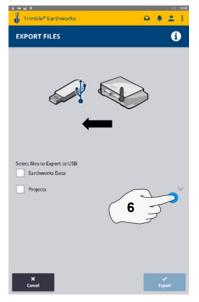


3. Touch Next

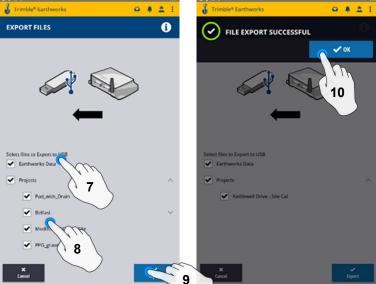


4. Touch USB

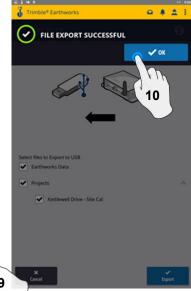
5. Touch Select



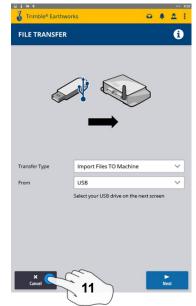
6. Touch "V"



- 7. Touch Earthworks Data
- 8. Touch Projects
- 9. Touch Export



10. Touch OK



11. Touch Cancel **Remove USB** 

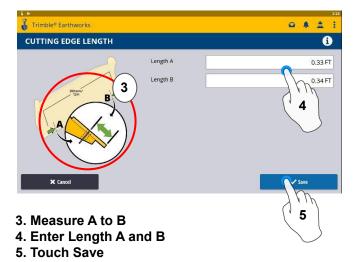


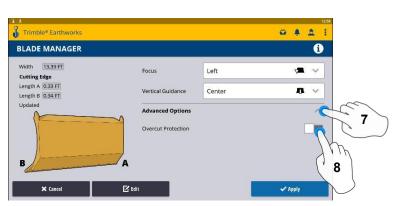


### **Cutting Edge Wear and Overcut Protection**

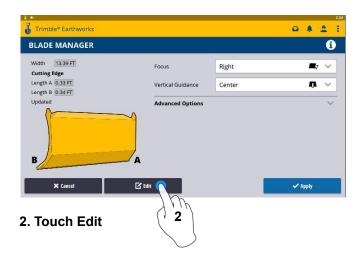


1. Touch and hold Focus Icon





- 7. Touch Advanced Options
- 8. Touch Overcut Protection





6. Keep the Blade still, let sensors initialize







### **Verify System Accuracy**

#### Verify the system accuracy by checking into a bench

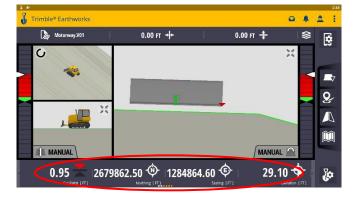






#### Position the blade tip over the bench point





3. Verify Accuracy Northing, Easting, Elevation

See Supervisor if Northing, Easting and Elevation do not match Project tolerances



verification location



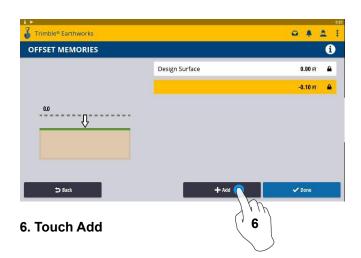
#### **Vertical Offset / Memories**

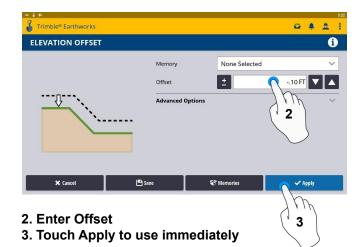


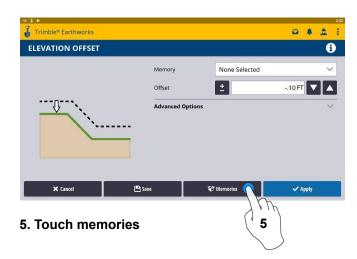
1. Touch and hold Vertical Offsets

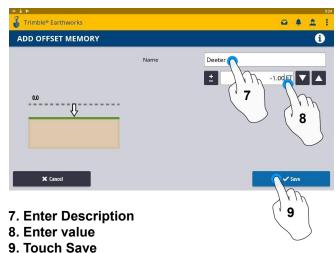


4. Touch and Hold Vertical Offsets





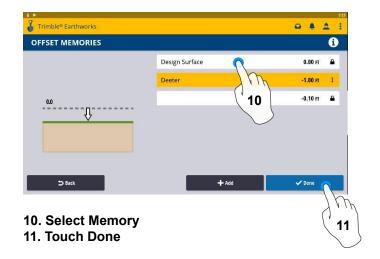


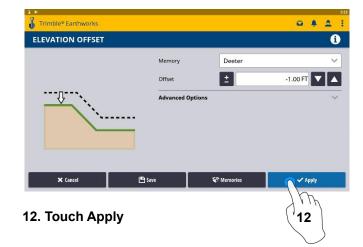






### **Vertical Offset / Memories Cont:**





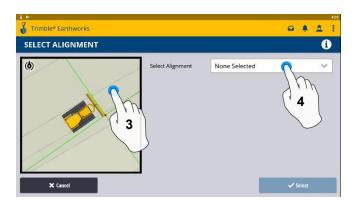




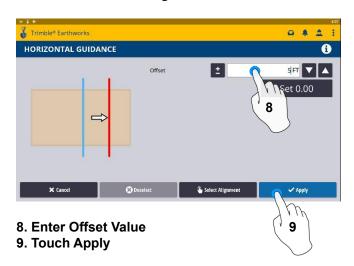
#### **Horizontal Offset**

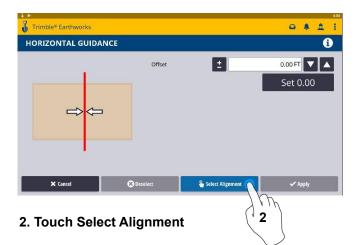


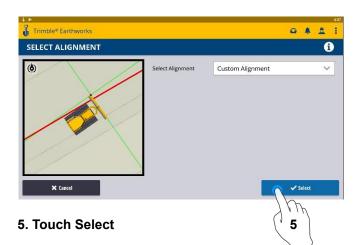
1. Touch and hold Horizontal Offset

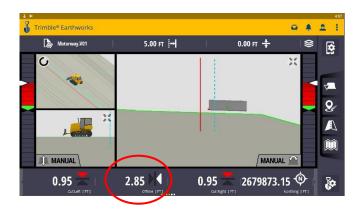


- 3. Touch Line OR
- 4. Touch and Select Alignment





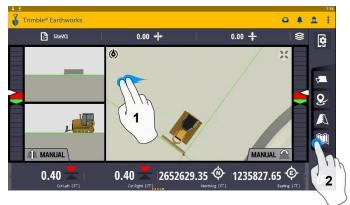








### **Cut Fill Mapping**





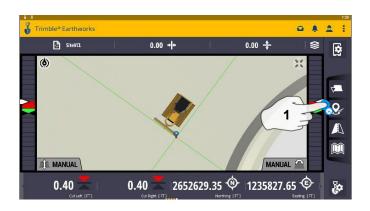
- 1. Two Finger Swipe to 3 screen view
- 2. Touch Mapping Icon to View

\*\*Cut Fill Mapping will only be visible in Plan, Cross section, and Profile views\*\*

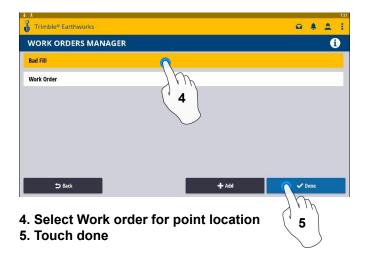




#### **Record Point**



1. Touch and Hold Record Point

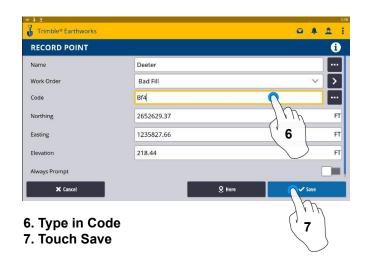




8. Touch Point Icon Records Point



- 2. Touch to Edit Name
- 3. Touch and select Work Order

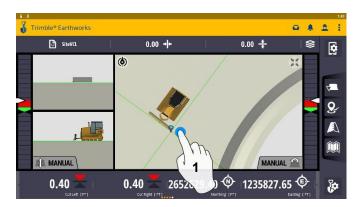


\*\* Note- After recording a point, it will save automatically in Work Order Created during project setup. \*\*





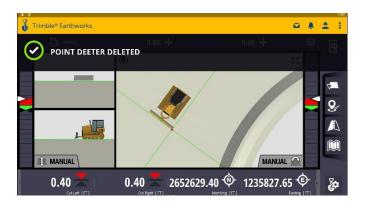
#### Delete / Edit Point

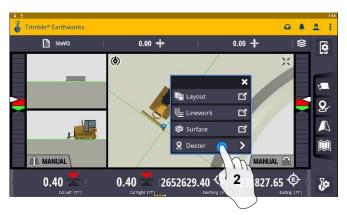


1. Touch and hold over point created

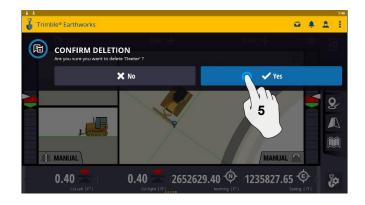


- 3. Edit point information if needed
- 4. Touch Delete





2. Touch point information

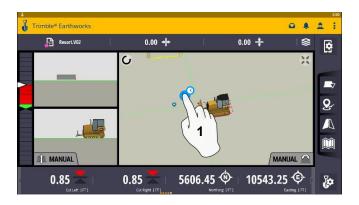


5. Touch Yes to Confirm Delete (once deleted can no longer retrieve)

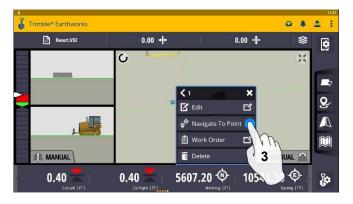




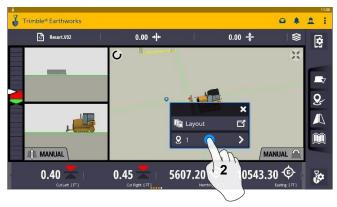
### Navigate to Point



1. Touch and hold next to point



3. Touch Navigate To Point



2. Touch Point Name

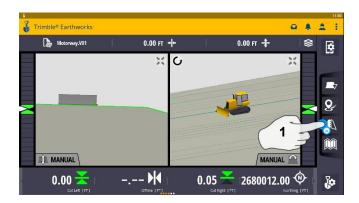


4. Touch to Exit

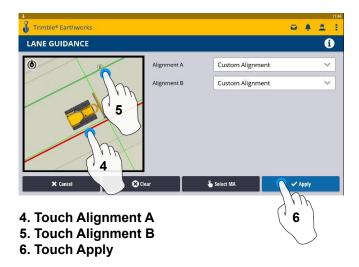


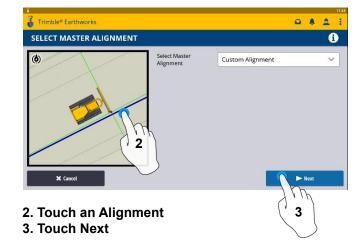


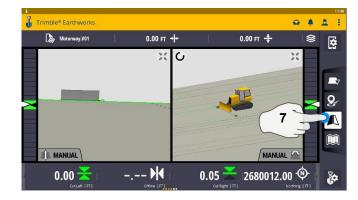
#### Lane Guidance



1. Touch and hold Lane Guidance







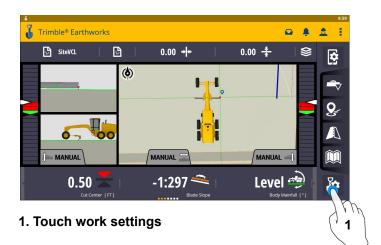
7. Touch Lane Guidance to Cancel

The slope between the two lines will be projected

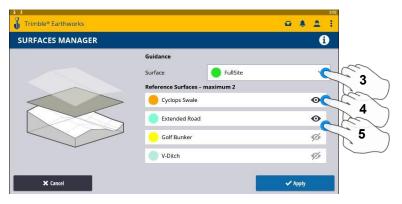




### Surface Manager \*\* Will only work in VCL format Designs\*\*





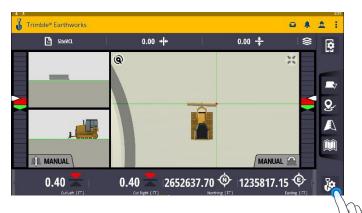


- 3. Select Surface for guidance
- 4. Select which Reference Surface(Maximum of 2)
- 5. Touch Apply





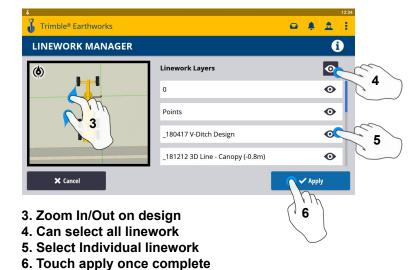
### Linework Manager \*\* Will only work in VCL format Designs\*\*



1. Touch Work Settings



2. Touch Linework manager



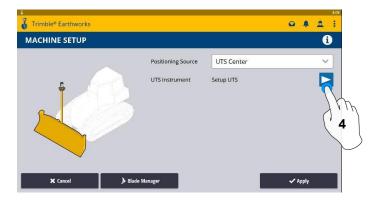




### **UTS Setup**



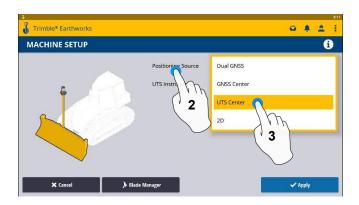
1. Touch Machine Setup



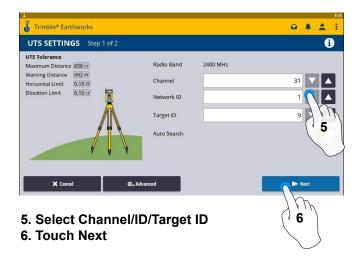
4. Touch to Edit/Add UTS



7. Touch to Start



- 2. Touch Positioning Source
- 3. Touch UTS



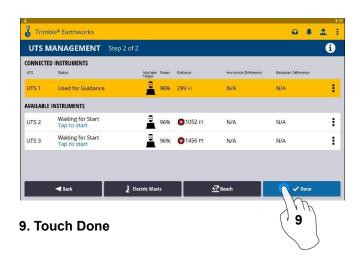


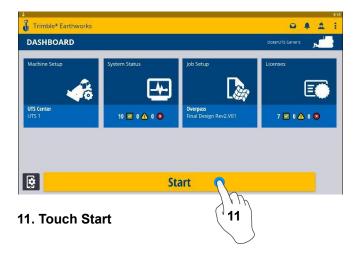
8. Touch to use for guidance

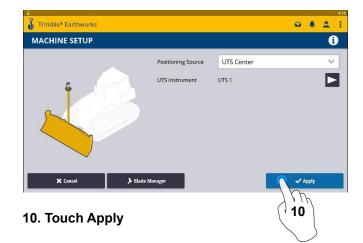




### **UTS Setup Cont:**







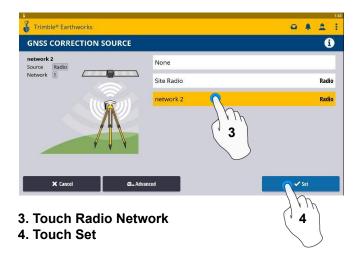




### Change Radio Network



1. Touch System Settings





2. Touch GNSS Correction Source

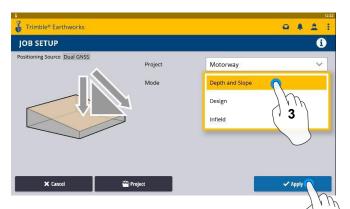




#### **Level Surface**



1. Touch Work Settings



- 3. Touch Mode and Select Depth and Slope
- 4. Touch Apply



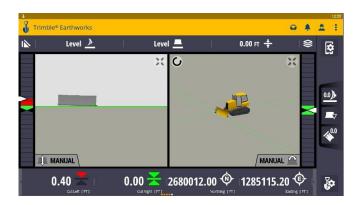
- 6. Select Blade Tip Focus Point
- 7. Place Blade Tip at Elevation and Touch Bench



2. Touch Job Setup



5. Touch Bench Heading



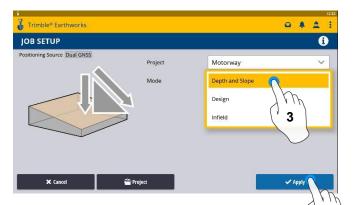




### **Sloping Surface**



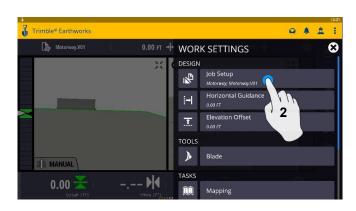
1. Touch Work Settings



- 3. Touch Mode and Select Depth and Slope
- 4. Touch Apply



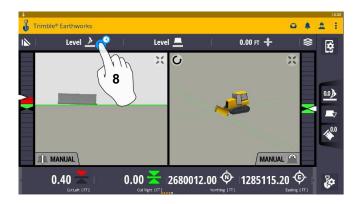
- 6. Select Blade Tip Focus Point
- 7. Place Blade Tip at Elevation and Touch Bench



2. Touch Job Setup



5. Touch Bench Heading



8. Touch and Hold Target Mainfall

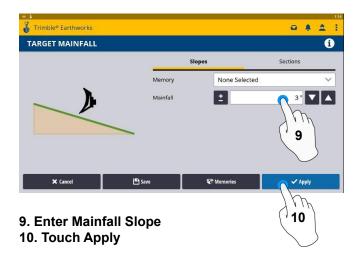
Note: This will apply a slope parallel to

the direction of heading.

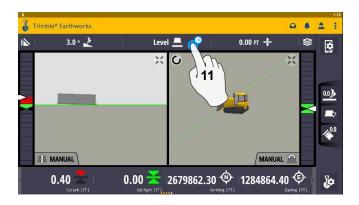




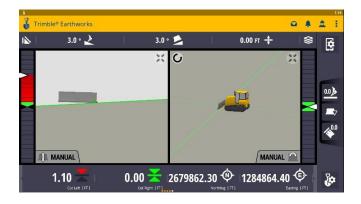
### **Sloping Surface Cont:**







11. Touch and Hold Cross Slope Note: This will apply a slope perpendicular to the direction of the heading







### Laser Setup

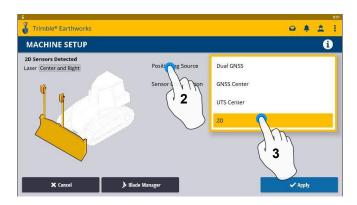


1. Touch Machine Setup

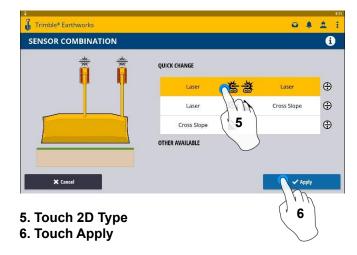


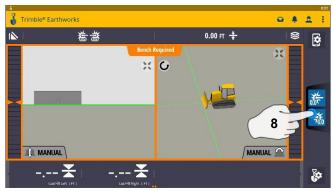
4. Touch to Edit 2D Sensors





- 2. Touch Positioning Source
- 3. Touch 2D





8. Touch to bench Laser Receivers



