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Driveline Angle Analysis Program

The Driveline Angle Analysis (DAA) Program is used to diagnose, set up and correct driveline angles for a variety of chassis configurations. The program runs in Adobe® Reader Software 9.0 or greater. Refer to Acrobat® Reader 9.0 or greater Help, if needed, for additional information.

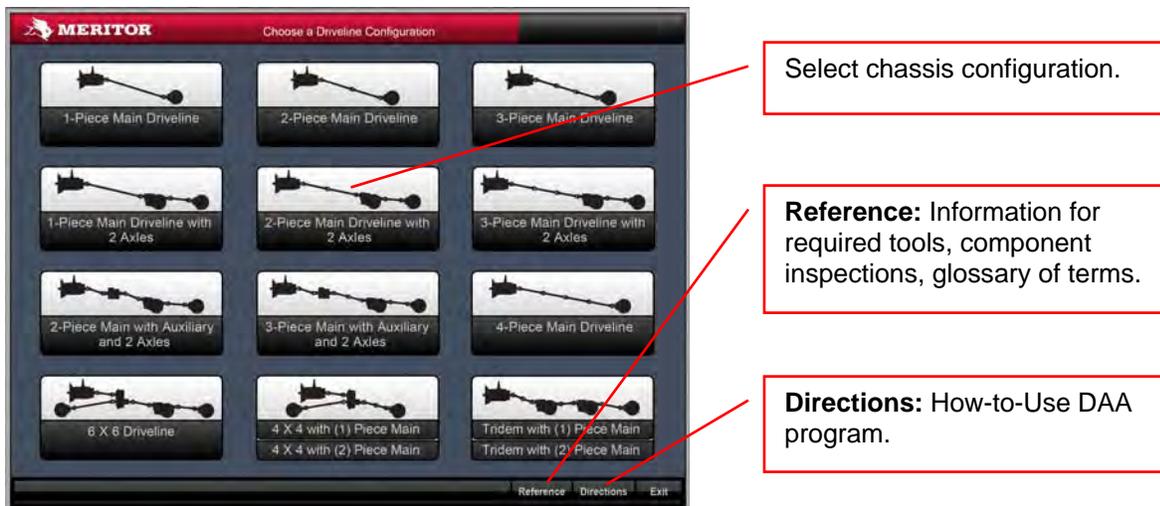
The Driveline Angle Analysis program also has “Reference” and “Directions” buttons located in the tool bar. The user can make either selection at any time and gain access to detailed information about performing driveline measurements, required tools, component inspections and How-to-Use the DAA software tool.

Navigation Tip

While using Directions or Reference, the user can select the page header and return to the Table of Contents (TOC). Select EXIT from the Table of Contents page and return to START screen.

Getting Started

From the “Choose a Driveline Configuration” window, mouse over any one of the representative drivelines and select a chassis configuration.



Note: For correct driveline calculation, data entry is required in all fields denoted by an asterisk.

The “Customer Information” window will be displayed. Enter corresponding required data in to the “VIN #”, “Max Engine RPM in Top Gear”, “Top Gear Ratio of Transmission” and “Top Gear Ratio of Auxiliary” (when applicable) boxes located on the data entry screen.

Asterisk denotes required data entry.

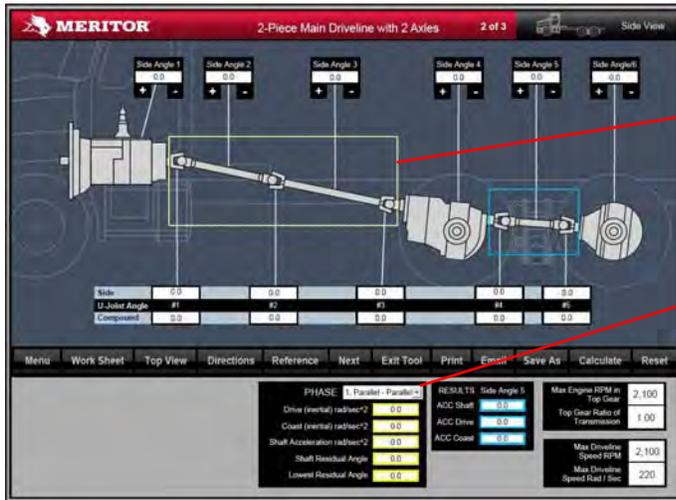
Select “Next” from the tool bar and advance to the data entry screens for “Side View” and “Top View” of the selected driveline configuration.

Next: Toggle between Side View, Top View and Customer Information screens.

Note: “Top View” data entry screen is automatically disabled until user selects “ENABLE Top View”.

Enable top view.

Some configurations will also include Phase Angle and the user must enter a selection from the drop-down menu.



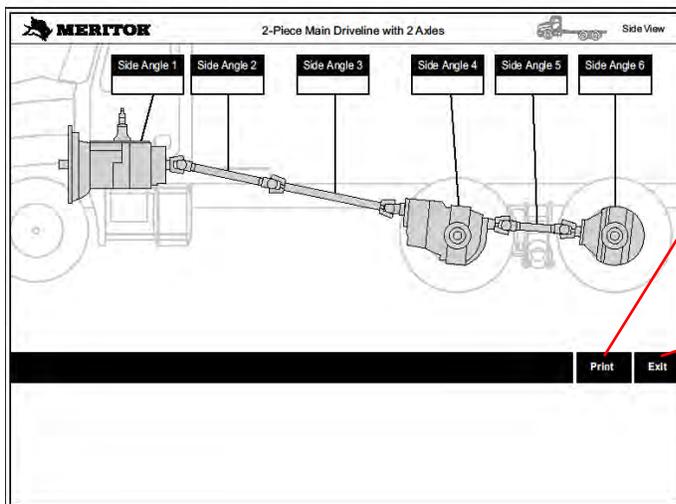
Highlighted box indicates phased components.

Select Phase configuration from drop-down menu.

Entering Vehicle Measurements

The vehicle measurements can be documented by using one of two methods:

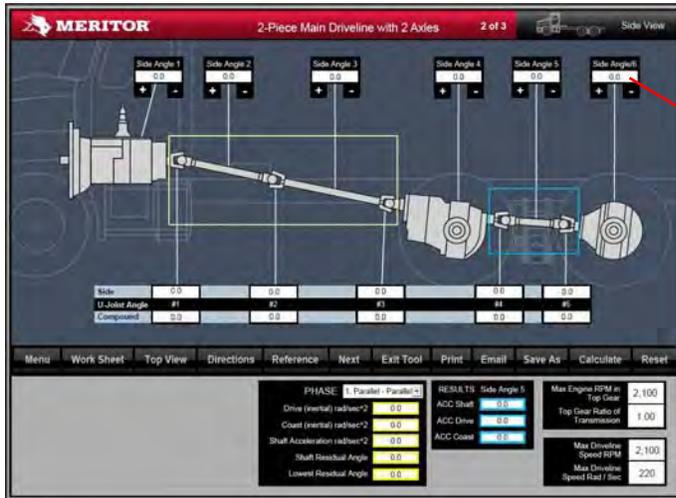
1. **Manual Data Capture:** The user selects the “Work Sheet” button located in the tool bar, which opens a print version of the specific driveline. Choose “Print” and a standard Windows® print icon will be displayed, allowing output to any local or network printer. The printed pages are used to document the vehicle measurements for “Top View”, “Side View” and “Customer Information”. An Angle Chart has also been included for reference. Transfer the measurements and customer data into the corresponding boxes on the electronic data screen(s). Return to the electronic data entry screen by selecting the “Exit” button displayed on the Worksheet.



Print: Print worksheets.

Exit: Return to electronic data entry screen.

2. **Electronic Data Entry:** In both the “Top View” and “Side View” windows, the user enters driveline measurements by typing the number directly into the corresponding data entry box across the top of the data entry window. The user can also mouse over the +/- indicators of the individual highlighted data entry windows and change driveline angles up or down in 0.5-degree increments.

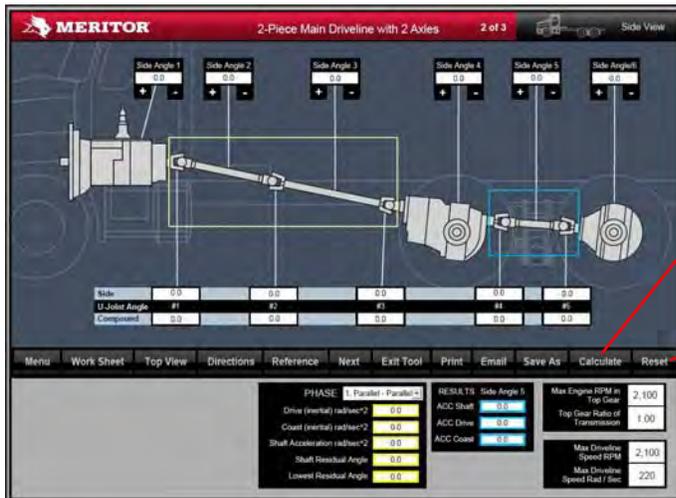


Driveline measurement data entry field.

Calculate Driveline Angle

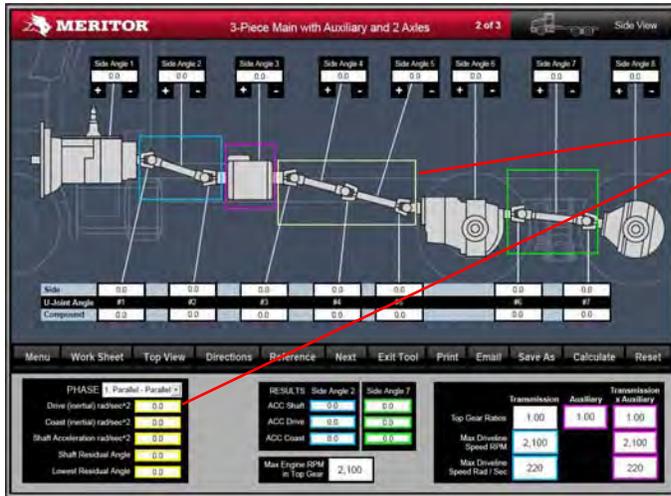
The appropriate U-joint angles and inertials will automatically calculate as data is entered for each component. Any one driveline calculation that exceeds defined limits is indicated in red. The user can adjust individual components, as indicated, to correct the out-of-range condition.

Note: Select the “Calculate” button on the tool bar after all driveline data entry has been completed.

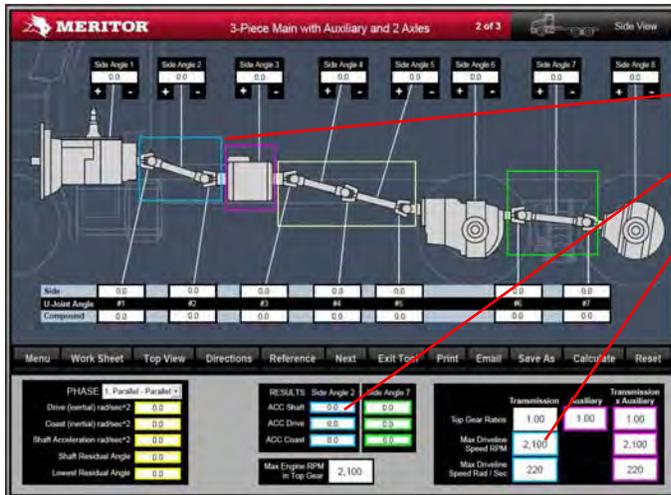


Calculate: Select to perform final tabulation.

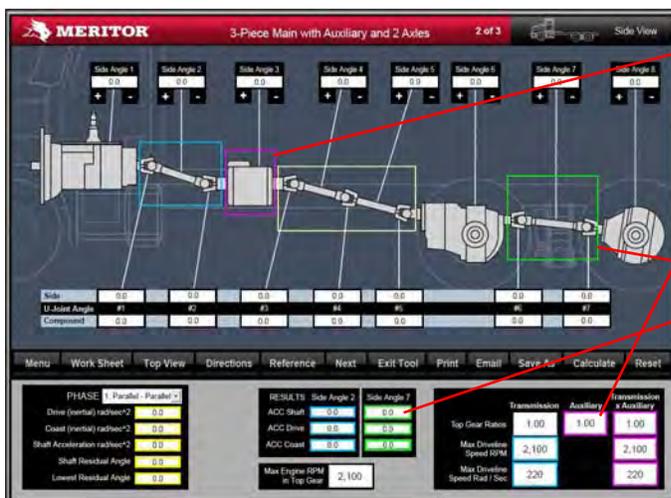
Reset: Clears all driveline measurements to “0” setting.



Yellow box indicates phased components and corresponding color-coded results table.



Blue box indicates shaft speed and corresponding color-coded results table.



Purple box indicates output from Auxiliary or Transfer Case and corresponding color-coded results table.

Green box indicates output from Auxiliary or Transfer Case to forward or rear most axle and corresponding color-coded results table.

Saving Results

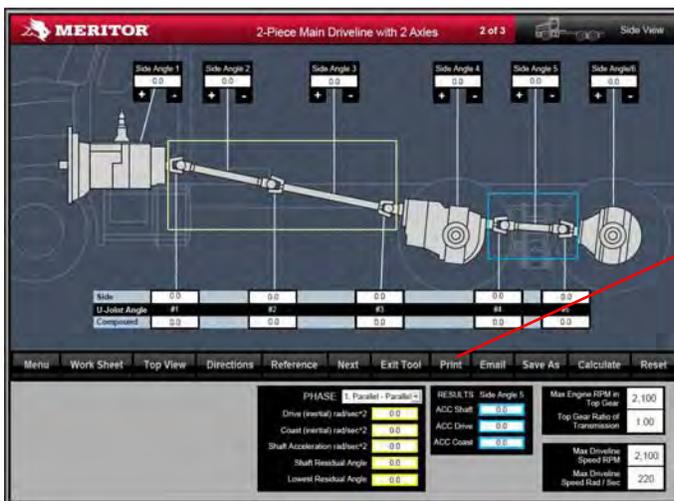
Select the “Save As” button located in the tool bar and the standard Windows® save icon will be displayed. The user can save the named file to a local hard drive or network.

Note: It is important to maintain a record of initial driveline measured values and corrected measurements for accurate before and after comparison.



Printing Results

Select the “Print” button located in the tool bar and the standard Windows® print icon will be displayed. The user can print the saved file to a local or network printer.



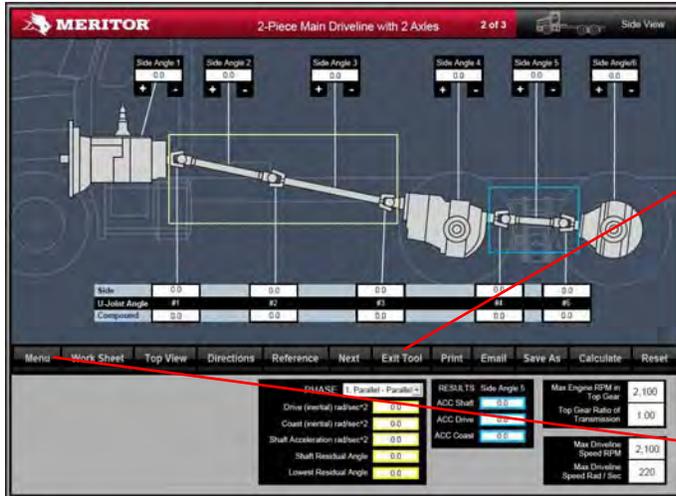
Print: Output to selected printer.

Email Results

Select the “Email” button located in the tool bar and the standard Windows® email icon will be displayed.

Select a New Driveline Configuration

From an existing electronic data entry screen, select “Exit Tool”. If data has been entered, the user is prompted to save changes prior to closing the existing window. The user will be returned to the opening screen that contains chassis configurations and can then select a new driveline combination. The user can also select “Menu” and return to main page.



Exit Tool: Return to main menu.

Menu: Return to main menu.