

Ogden Kodiak 6ft Saw Operation Manual

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Introduction

Manual Overview

This is an Operation Manual for the Kodiak Saw (BPS NNN) revised control system. Each chapter topic covers one operator screen, along with related controls and indicators. The following format is used for indicating tips (**i**) and cautionary notes (**!**) where necessary. As an example, the figure below shows the Main Operator Screen. Details that would follow the image of the screen shall include items of interest, such as control items and information areas, as well as status indicators. The descriptions and explanations are given from the perspective of proper equipment operation by the reader. A basic understanding of machine operation and safety procedures specific to the facility housing the equipment, should be considered a pre-requisite.



Figure 1: Example Screen

i The Main Screen shown above uses the same style of layout as all of the Operator Screens. Navigation to other screens is done using the physical buttons on the left side of the terminal, with the labels referencing what screen to goto. The operator can always return to the Main Screen from any other screen by pressing the Menu button located at the bottom left of the terminal.

! A fault will be triggered by the program logic if the Operator tries to begin an Automatic Cycle without first entering a valid cut program.

Above notes are examples of Information and Cautionary notes related to the display screen being discussed.

Screen Layout Style Screen navigation is done through the use of the left hand Terminal Programmable keys and the Terminal Menu key. If a Programmable Key can be used to navigate to another screen, it will be noted by a label next to that key. In the above figure of the Example Screen, there are labels next to the top three Programmable Keys. This would indicate that the Operator can navigate to the labeled Screens by pressing the adjacent key. In this example, the Operator is able to navigate to either the Alarms Screen, the Manual Screen, or the Cut Program Screen. The Menu key will always return the Operator to the Main Screen from any other screen. Alarm messages and Information messages scroll through all active messages continuously until they are no longer active. Alarms are active until the Operator acknowledges them by resetting them using the Alarm Reset button on the Alarm Screen. On the Main Screen above, the Message Display Area is at the top of the Screen below the Title. The Message Area will display messages for the Operator's information, which will change according to the state of the machine. No interaction is required by the Operator since it is information only. All Alarms are displayed in the Alarm Screen Alarm Message Display Area, but indication an alarm condition exists will be displayed in the Information Display Area. Looking at the Main Screen figure above, there are control buttons located at the bottom of the screen. These are an example of how Operator Control devices and Indicator devices will be displayed and interacted with. All of the Buttons and Pilot Lights have been chosen to resemble physical Industrial Operator and Indicator devices that would normally be found on a control panel for a machine.

Chapter 1

The Main Screen

Overview The Main Screen is the primary display screen. It is shown at power up, and is where Operation Mode (Hand or Automatic) is selected. It displays the Operator Message Centre which provides the Operator with current and relevant machine state information. There are also controls for *Automatic Cycle Start* and *Automatic Cycle Stop*, plus *Machine Full Stop*. Finally, there are screen navigation keys provided for Operator access to other machine functions.

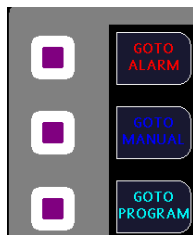


Figure 1.1: Main Screen

Main Screen Details Main Screen Details are divided into the general categories.

- Screen Navigation
- Operator Message Centre
- Saw Information
- Program Details
- Operation Control

Screen Navigation Is performed by using the Programmable Keys (FKeys) located down the left hand side of the OI Terminal. For the Main Screen there are three screens accessible using the labeled FKey's, **Alarms**, **Manual**, and **Program**.



GOTO ALARM Navigate to Alarms Screen.
GOTO MANUAL Navigate to Manual Screen.
GOTO PROGRAM Navigate to Cut Program Screen.

i The Menu Key located on the terminal at the lower left below the FKey's, will return the Operator to the Main Screen, from all other screens.



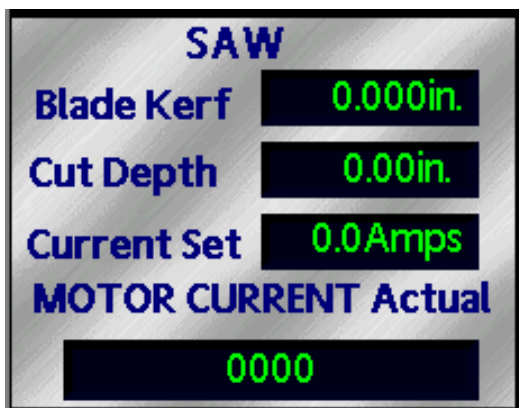
i The Menu Key is pictured as it looks on the Terminal.

Operator Message Centre Is the message display area located on the Main Screen near the Title. It is used to display information for the Operator during machine use. It doesn't display Alarms, that is done on the Alarms Screen, though it will indicate if an Alarm condition exists.



The **Operator Message Centre** shown above will display information messages for the Operator. If more than one message is active the display will scroll through all messages continuously.

Saw Information Is an area where the Operator can see Saw information at a glance. **Saw Kerf**, **Cut Depth**, and **Current Set** are displayed along with the **Motor Current Actual**.



Chapter 2

The Alarm Screen

