

FOUR WINNS® VDO INSTRUMENT INSTRUCTIONS

DATE: MAY 1, 2000

TO: 2000 MODEL FOUR WINNS BOAT OWNERS

FROM: FOUR WINNS CUSTOMER SERVICE DEPARTMENT

SUBJECT: 2000 FOUR WINNS/VDO CLUSTER PROGRAMMING INSTRUCTIONS

MODELS AFFECTED: ALL 2000 MODELS WITH 2000 VDO MODULES

Dear Four Winns Boat Owner:

Below you will find the instructions for setting the different display functions of the 2000 Four Winns VDO cluster. Also included is a copy of the VDO Instrument “**Quick Start**” card for fast and easy reference

Four Winns/VDO Module Display Settings

The LCD display has seven (7) basic functions, clock, depth, distance log, trip log, engine hours, trip hours, and water temperature. The operation and display of the functions is controlled by the MODE and SET push buttons. **Please note that the ADJUST button on the VDO “Quick Start” card is the SET button on the Four Winns dash panel.** Also included in the following is a detailed description of the steps involved in setting the different display functions:

1. Clock

The Clock Display is selected by pressing the MODE button. Note that during Clock Display the colon blinks once per second.

The time of day is set by pressing and holding MODE and SET for 2 seconds while in Clock Display mode. The MODE button is then used to advance through the time set features. Hours are set first, then minutes, then 12/24-hour mode. The selected digits blink while being set. While in set mode the SET button is pressed to increment the selected unit. The hours is set in the 24 hour format, rolling to zero at 24. The minutes roll to zero at 60. While setting the 12/24-hour feature, 24 is displayed in the hours position and 12 is displayed in the minutes position. The current mode blinks (i.e. in 24 hour the “24” blinks).

MODE and SET are debounced for 3/8 of a second. If the SET button is held for 2 seconds while setting the numeric value the key auto repeats at a rate of 6 per second (i.e. to scroll through all 60 minutes requires 12 seconds). When the ignition is turned off the present mode is saved and the LCD displays the time of day. **The time setting functions are not available with the ignition off.** When the ignition is turned on the LCD returns to its prior display mode.

The clock keeps time up to 21 days after the ignition is turned off. During this time the system is in its power saving state. **After 21 days the module shuts down to conserve battery power.** When the ignition is turned on after 21 days, the clock restarts at midnight in the mode active at ignition off. The time of day must be set again.

2. Depth Sounder & Alarm

Depth sounder readings can be displayed in feet or meters. The depth sounder has both an audible and visual alarm.

A shallow water depth alarm feature can be set in increments of 1' (0.3m). The operator sets the value by pressing and holding dashboard mounted MODE and SET buttons for 2 seconds. Entering shallow water causes a continuous chirping sound and blinking up/down arrow segments.

The shallow water alarm setting is displayed as blinking digits. Current depth is displayed as steady (not blinking) digits. **If the alarm screen is blank no shallow water alarm is set.** If the depth screen shows dashes the depth is zero or indicates a bad sensor reading.

Press the MODE button initiates “Set Mode”. The shallow water setting blinks along with the down arrows on the display. Pressing the SET button sets the alarm towards deeper water. Pressing the MODE button again indicates the up arrows. With the up arrows on, pressing the SET button sets the alarms towards shallower water. Holding the SET button longer than 1 second speeds up the process of making the alarm setting deeper or shallower.

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Pressing the MODE button again allows the depth measurement units to be changed. While in "Units Mode", the shallow alarm setting blinks and the "FEET" or "METERS" telltale flashes. Pressing the SET button changes between feet and meters. Pressing the MODE button again allows the depth sounder system to be enabled or disabled. In this mode a blinking message "ON" or "OFF" appears. Pressing the SET button changes between Sounder ON and Sounder Off. In the "OFF" mode the sounder no longer sends out its periodic sonar ping. **The "OFF" mode should be enabled when using Fish Finders or other equipment that has the same 200kHz frequency to avoid "Cross Talk".**

Pressing the MODE button again causes a return to normal "Depth Mode". In any case, thirty seconds after the last button press, the display automatically returns to depth mode. In Depth Display mode, pressing the SET button displays the shallow water alarm setting. The alarm setting blinks for ten seconds. When shallow water is encountered the up/down arrows blink and the audible alarm beeps.

Pressing the SET button turns the beeper off, but only for the present low water event. Entering deeper water re-enables the beeper for the next encounter with shallow water

3. Odometer (Log) and Trip Odometer (Trip Log)

The **Log** calculates total mileage based on input from the paddle wheel. **This value is unable to be reset except at the factory and is stored in nonvolatile memory.**

The **Trip Log** can be reset and it is the accumulated distance that will be displayed since the last reset. The operator presses both MODE and SET while in the Trip Log mode to reset to "Zero".

The Log and Trip Log functions will display Statute Miles when the Depth function displays "Feet". Kilometers will be displayed when the Depth displays "Meters".

4. Total (Engine) Hours

This function displays the total running hours (above 500 RPM) and will be displayed in 1-hour increments. This **value is unable to be reset.**

5. Trip Hours

This is a display function of the engine hours with Hour/Minute resolution up to 100 hours maximum, which can be reset. Pressing both the SET and MODE buttons while in Trip Hour mode resets the values to "Zero".

6. Seawater Temperature


This function measures the water temperature at the paddle wheel speedo. When the Depth function is in "Feet" the function defaults to "°F" (Fahrenheit). When the Depth function is in "Meters" the temperature defaults to "°C" (Centigrade).

If you have any questions or need assistance please contact VDO North America LLC at 540-665-0100 or Four Winns Customer Service at 231-775-1343.

Sincerely,

Four Winns Customer Service Department

Please NOTE: The ADJUST button is the SET button on the Four Winns dash panel.

VDO Marine Instrument Module
Quick Start for Display Settings
 Use the **MODE** button to Toggle through the 7 basic settings. Press both **MODE** and **ADJUST** to enter or change values. 
 Arrow(s) show current function.

